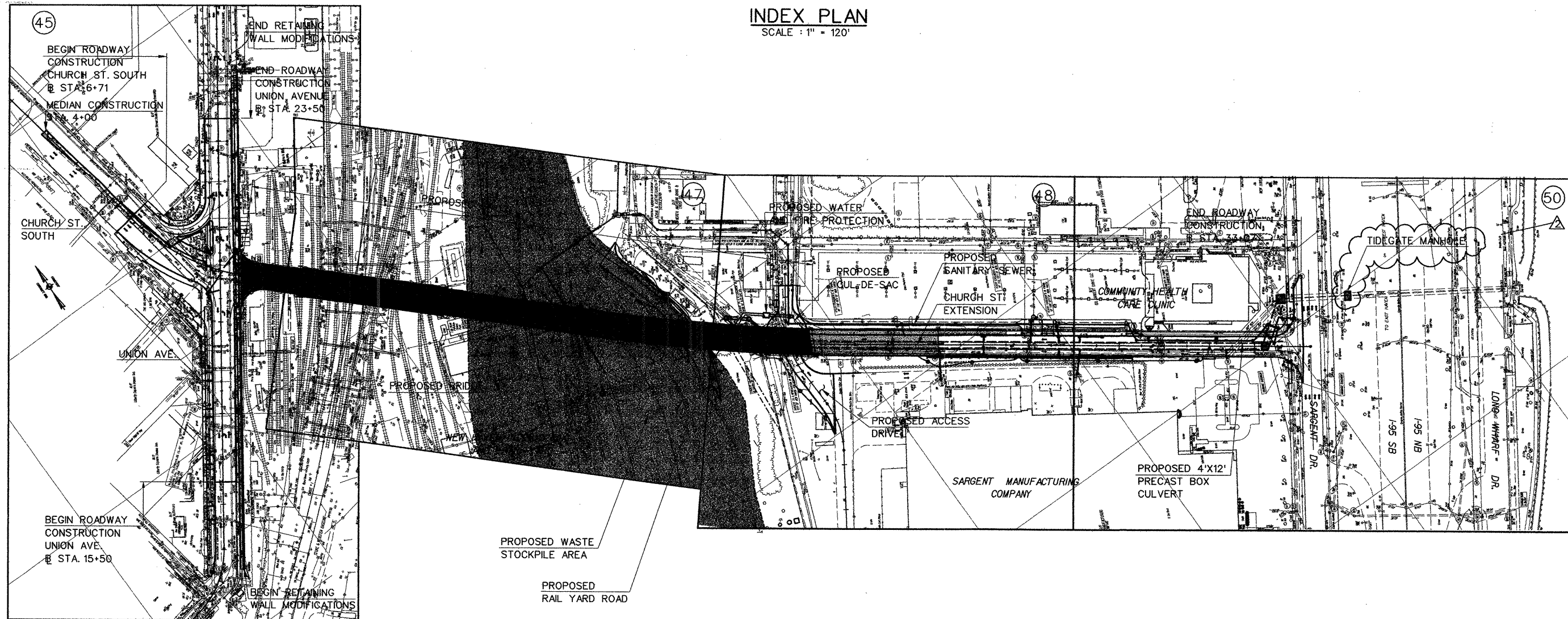




INDEX PLAN

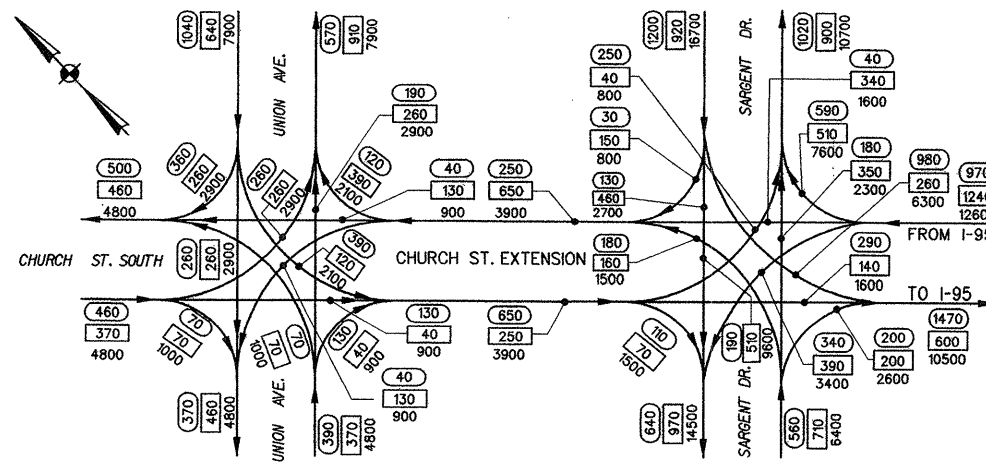
SCALE: 1" = 120'



NEW HAVEN HARBOR

NOTES:

1. PLACEMENT OF SERIES 16 CONSTRUCTION SIGNS AND PUBLIC INFORMATION SIGNS AS DIRECTED BY THE ENGINEER.
2. APPROXIMATE 100-YEAR FLOODPLAIN (ELEV. 11.0) (F.E.M.A. MAP REVISED OCT. 31, 1997)
3. THE SEASONAL HIGH GROUNDWATER ELEVATION WAS ESTIMATED FROM THE WATER LEVEL NOTED IN TEST BORINGS DRILLED ALONG THE BRIDGE AND ROADWAY ALIGNMENT IN LATE APRIL TO MID MAY 1999. IT WAS TAKEN AS ELEV. 8.0 IN THE YARD NEAR UNION AVENUE AND ELEV. 1.5 AT SARGENT DRIVE. A STRAIGHT LINE INTERPOLATION BETWEEN THESE POINTS HAS BEEN USED.
4. PLACEMENT OF REUSABLE CONTROLLED MATERIALS ONLY ALLOWED ABOVE THE SEASONAL HIGH GROUNDWATER ELEVATION AS DESCRIBED IN NOTE 3.
5. FOR SANITARY, WATER AND FIRE PROTECTION SYSTEM SEE DRAINAGE AND UTILITY PLANS.
6. FOR PROPOSED LIGHTING SEE ILLUMINATION PLANS.



2020 TRAFFIC VOLUMES

ASSUMPTION: PROPOSED GEOMETRY WITH PROPOSED MALL VOLUMES  
NOT TO SCALE

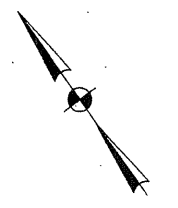
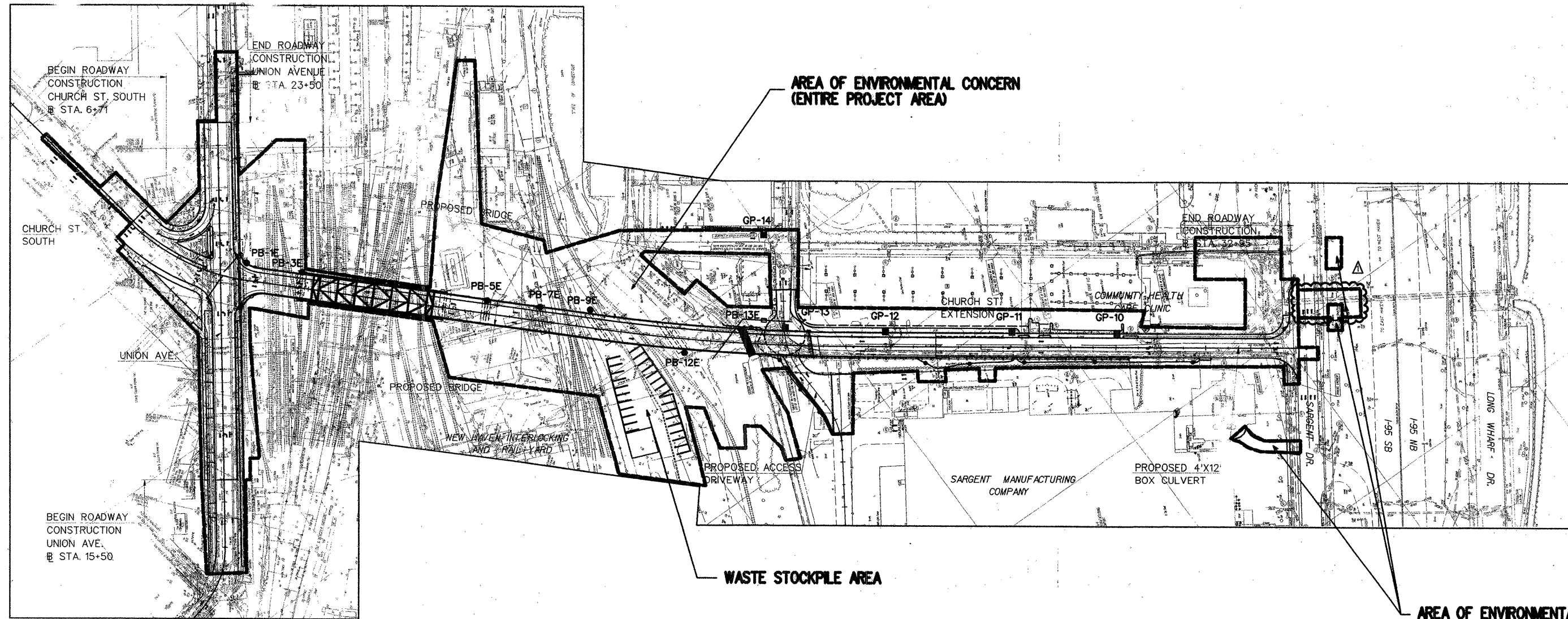
LEGEND

- ⊖ - 2020 PM PEAK
- ⊕ - 2020 AM PEAK
- 000 - 2020 ADT (AVERAGE DAILY TRAFFIC)
- - DIRECTION OF TRAFFIC
- 1" - 40' ROADWAY DEVELOPMENT PLAN
- - 100 YEAR FLOODPLAIN (SEE NOTE 2)

ADDENDUM NO. 2

SCALE AS NOTED		DESIGNER: A. MARGIOTTA	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: CHURCH STREET SOUTH EXTENSION OVER NEW HAVEN INTERLOCKING AND RAIL YARD	TOWN: NEW HAVEN	PROJECT NO.: 92-526
		DRAFTER: M. OFFENBERG		ENGINEER: PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.	DRAWING TITLE: PROJECT INDEX PLAN SHEET	DRAWING NO.:
REV.	DATE	DESCRIPTION	DATE CHECKED: 4-6-00	CADD FILE: AD2H703001.IND		SHEET NO.: 2
11-7-00		ADDENDUM NO. 2		PLOTTED DATE: 11-2-00		

1/3/3/5/7 08 NOV 2000



SCALE : 1" = 120'


NEW HAVEN HARBOR

AREA OF ENVIRONMENTAL CONCERN

ADDENDUM NO. 2

REV.	DATE	DESCRIPTION	REVISIONS

DESIGNER: MJB	CHECKED BY: GCC	DATE CHECKED: NOVEMBER 1999
DRAFTER: MJB		


**STATE OF CONNECTICUT**  
 DEPARTMENT OF TRANSPORTATION

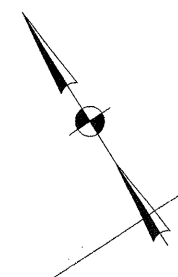
ENGINEER: MAGUIRE GROUP INC.  
 APPROVED BY: *David W. Maguire* DATE: 11/7/00



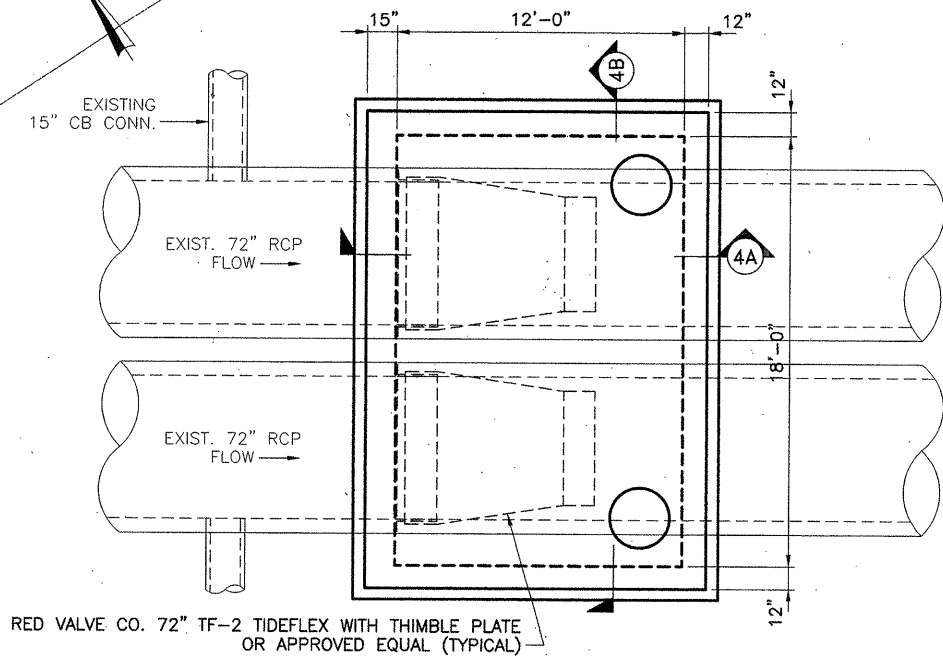
PROJECT TITLE: CONSTRUCTION OF CHURCH STREET SOUTH EXTENSION	CADD FILE: 0920520001.dwg
PLOTTED DATE: March 2000	

TOWN: NEW HAVEN	DRAWING TITLE: AREA OF ENVIRONMENTAL CONCERN
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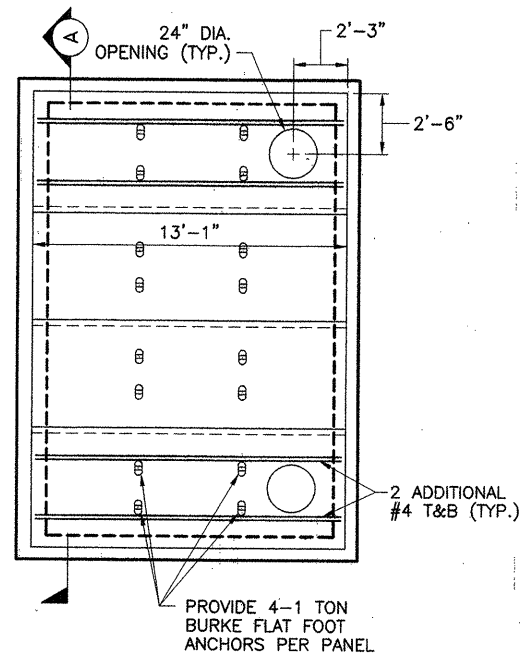
PROJECT NO.: 92-526	DRAWING NO.: 0920520001
	SHEET NO.: (E-1) 11



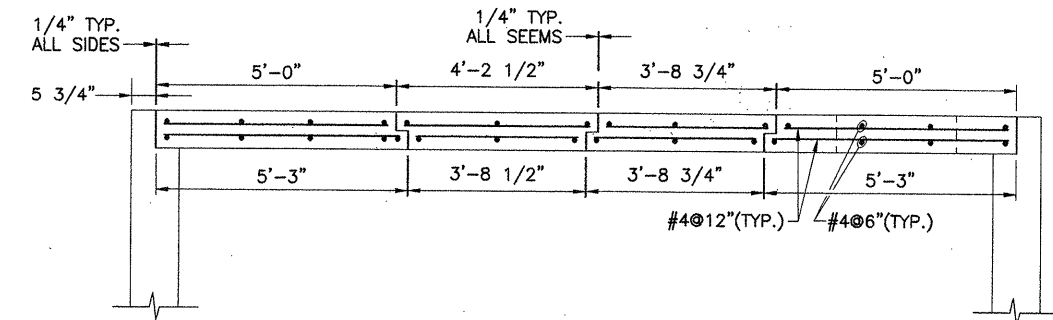
NOTE: STRUCTURE TO BE PLACED  
DOWNSTREAM OF EXISTING  
15" CB CONNECTIONS.



**TIDEGATE MANHOLE  
PLAN**  
SCALE: 1/4"=1'-0"



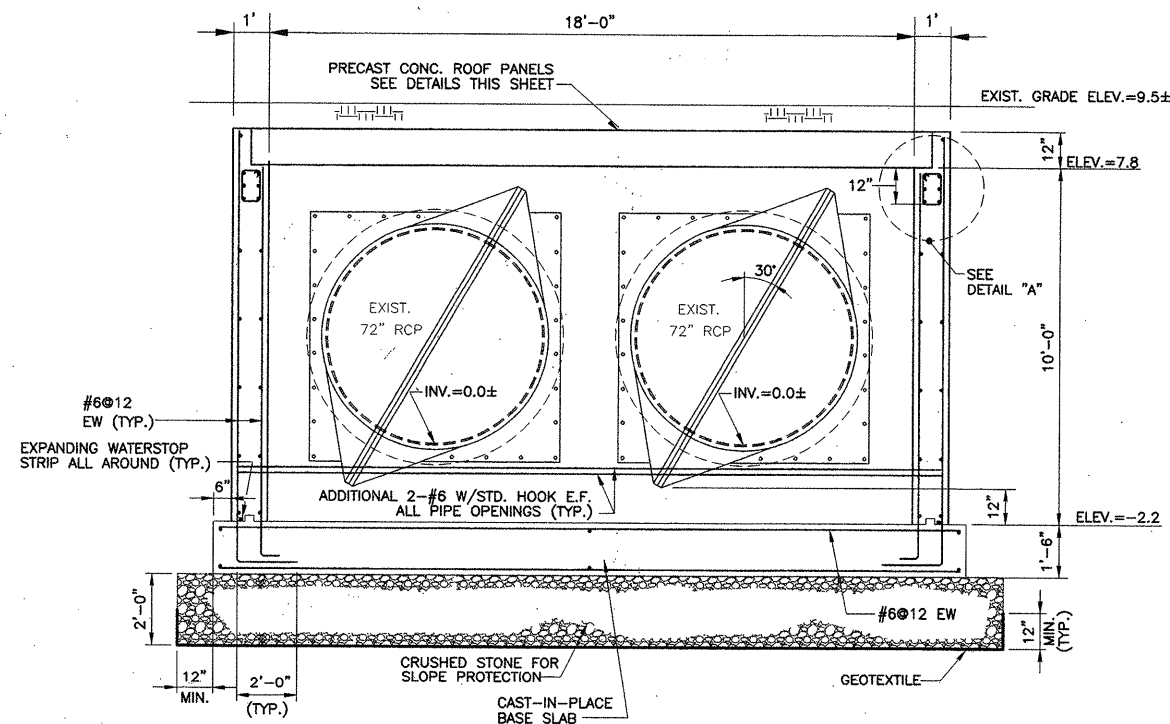
**PRECAST CONCRETE ROOF PANELS  
PLAN**  
SCALE: 1/4"=1'-0"



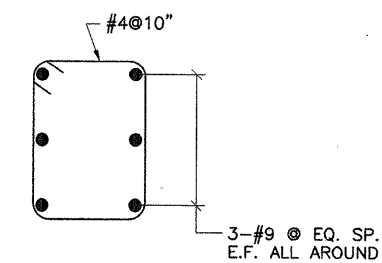
**SECTION A**  
SCALE: 1/4"=1'-0"

**NOTES:**

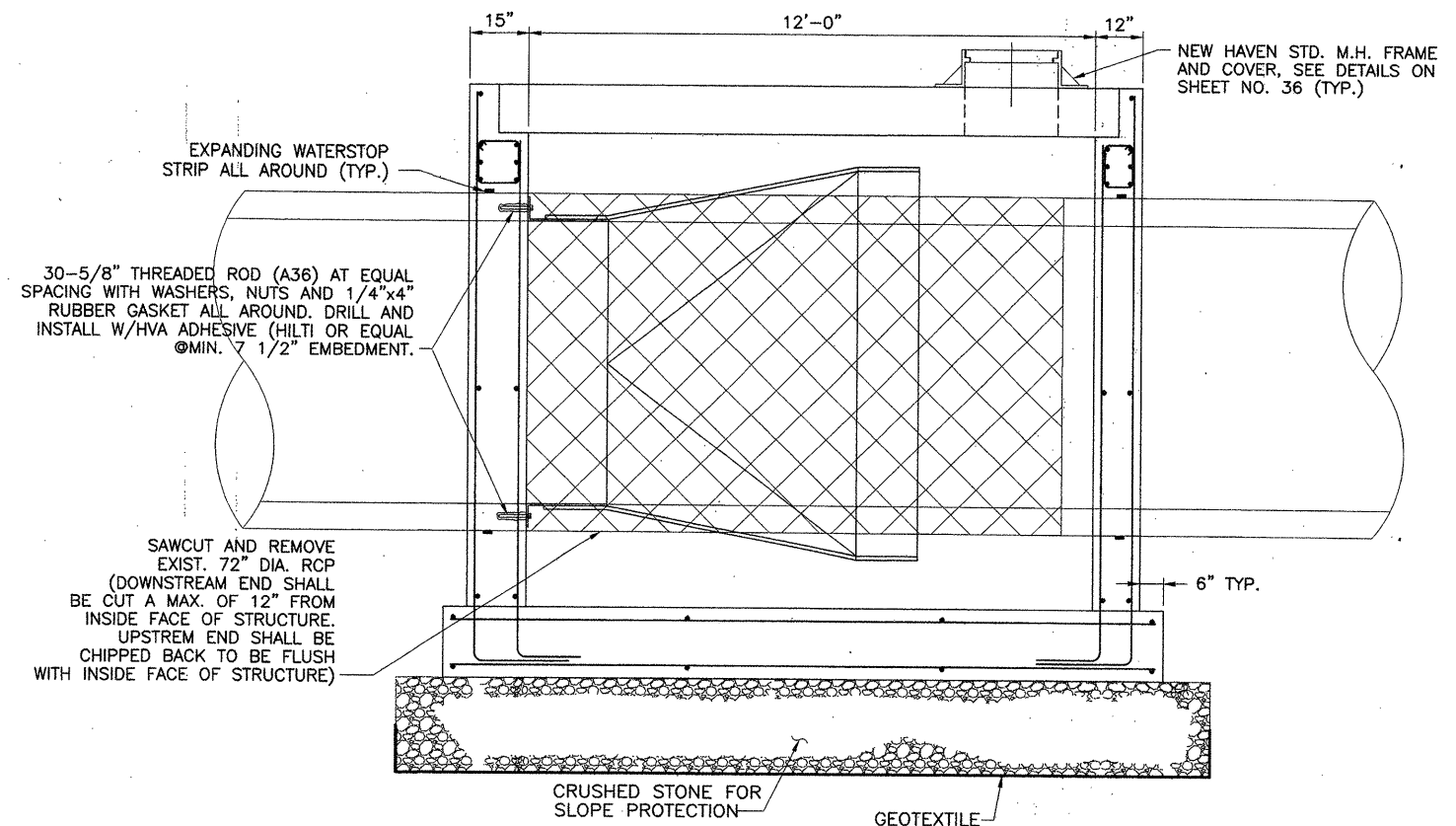
1. THE CONTRACTOR SHALL PERFORM TEST PITS TO LOCATE THE EXISTING TWIN 72" PIPES AND THE 15" CB CONNECTIONS TO VERIFY THE EXISTING INVERTS AT THE LOCATION OF THE PROPOSED TIDEGATE MANHOLE STRUCTURE. THE CONTRACTOR SHALL ALSO FIELD MEASURE THE SPACING OF THE EXISTING 72" RCP. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. FOR SUGGESTED WATER HANDLING PLANS, REFER TO SHEET(S) NO. 75
3. FOR REINFORCING DETAILS OF OPENINGS LARGER THAN 12" AND WALL CORNER REINFORCEMENT PLACEMENT, SEE SHEET NO. 26.



**SECTION 4B**  
SCALE: 3/8"=1'-0"



**DETAIL A**  
NTS



**SECTION 4A**  
SCALE: 1/2"=1'-0"

X:\18703\DWG\CHAMBER-4.DWG 10/06/00 14:42

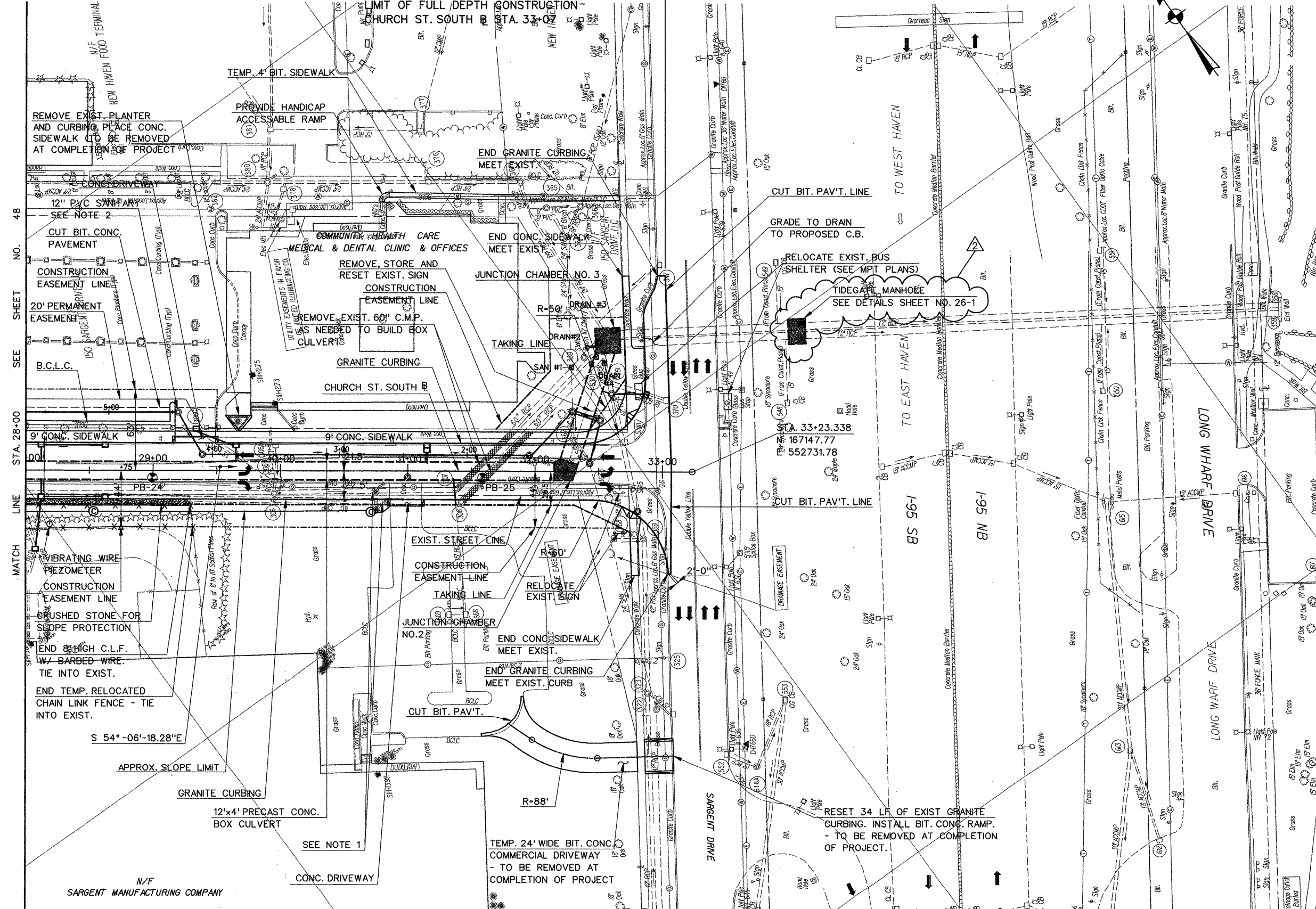
REV.	DATE	DESCRIPTION	REVISIONS	SHEET NO.

DESIGNER: J. BURCKARDT/S.J. CHEN	
DRAFTER: J. DEROSIER	
CHECKED BY: S.J. CHEN/S. BURCKARDT	ENGINEER: PARSONS BRINCKERHOFF QUAE & DOUGLAS, INC.
DATE CHECKED: 11/3/00	

NEW SHEET ADDED BY ADDENDUM NO. 2	
PROJECT TITLE: CHURCH STREET SOUTH EXTENSION OVER NEW HAVEN INTERLOCKING AND RAIL YARD	TOWN: NEW HAVEN
CADD FILE:	PLOTTED DATE: 11-3-00

DRAWING TITLE: TIDEGATE MANHOLE STRUCTURE	PROJECT NO.: 92-526
	SHEET NO.: 26-1

END PROJECT NO. 92-526  
 FEDERAL AID PROJECT NO. MGS-1092(110)  
 LIMIT OF FULL DEPTH CONSTRUCTION -  
 CHURCH ST. SOUTH STA. 33+07



**5" GRANITE STONE CURBING TABLE**

LOCATION	OFFSET	STATION	STATION	LENGTH
CHURCH STREET SOUTH	LEFT	28+00	28+09	9'
CHURCH STREET SOUTH	LEFT	28+15	28+59	44'
CHURCH STREET SOUTH	LEFT	28+65	29+15	50'
CHURCH STREET SOUTH	LEFT	29+51	29+62	11'
CHURCH STREET SOUTH	LEFT	29+68	31+12	144'
CHURCH STREET SOUTH	LEFT	31+18	32+37	119'
CHURCH STREET SOUTH	LEFT	32+87	32+85	49'
CHURCH STREET SOUTH	RIGHT	28+00	28+09	9'
CHURCH STREET SOUTH	RIGHT	28+15	28+59	44'
CHURCH STREET SOUTH	RIGHT	28+65	30+84	219'
CHURCH STREET SOUTH	RIGHT	31+13	32+45	132'

**5" GRANITE CURVED STONE CURBING TABLE**

LOCATION	OFFSET	STATION	STATION	LENGTH
CHURCH STREET SOUTH	LEFT	32+37	32+71	38'
CHURCH STREET SOUTH	LEFT	32+81	32+85	9'
CHURCH STREET SOUTH	LEFT	32+85	32+96	33'
CHURCH STREET SOUTH	RIGHT	32+45	32+68	24'
CHURCH STREET SOUTH	RIGHT	32+83	33+05	50'

**BITUMINOUS CONCRETE LIP CURBING**

LOCATION	OFFSET	STATION	STATION	LENGTH
C.H.C.P. PARKING LOT	LEFT	28+00	29+17	152'

N/F 150 SARGENT DRIVE LLC  
 TAKING AREA = 575± SQ. FT.

Easement For Temporary Work Area For The Purpose Of The Temporary Closing Of Driveways On Church Street Extension, The Installation Of Sanitary Sewer And The Construction And Grading Of Church Street Extension And Associated Bridge Structure During The Construction Of Church Street South Extension Over New Haven Interlocking And Rail Yard Including All Necessary Appurtenances Thereto Acquired, Said Easement To Automatically Terminate Upon Completion Of Church Street South Extension Over New Haven Interlocking And Rail Yard Unless Sooner Released By The State. Temporary Easement Taken Under This Paragraph Will Be Restored By Grading And Seeding The Area.

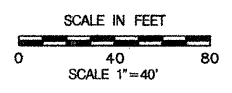
- Easement To Install And Maintain 12" Sanitary Sewer Acquired.
- Right To Remove And Reset Barrier Acquired.
- Right To Construct Bituminous Lip Concrete Curbing Acquired.
- Right To Construct Paved Parking Area And Raised Grass Shelf Acquired.
- Right To Remove And Reset Signs Acquired.
- Rights Of Access Acquired.
- Right To Remove Planter And Curbing And Construct Conc. Sidewalk Acquired.
- Right To Construct Temporary Bituminous Sidewalk Acquired.
- Right To Establish Temporary Painted Crosswalk Acquired.
- Right To Remove Trees Acquired.

**NOTES:**  
 1. APPROXIMATE LOCATION OF EXISTING 60" CMP TO BE VERIFIED BY CONTRACTOR. FILL PIPES WITH FLOWABLE FILL (SEE SPECIAL PROVISIONS) AND ABANDON. REMOVE SECTIONS OF PIPE PRIOR TO FILLING AS REQUIRED TO ACCOMMODATE PROPOSED DRAINAGE.  
 2. FOR "GENERAL NOTES" SEE ROADWAY PLAN SHEET NO. 45.

**ADDENDUM NO. 2**

11-36-35  
 08 NOV 2000  
 n:\g\m\10703\chrchstr\addendum no. 2\027031014.dwg

REV.	DATE	DESCRIPTION	REVISIONS	SHEET NO.
1	11-7-00	ADDENDUM NO. 1		50



DESIGNER: A. MARGIOTTA  
 DRAFTER: M. DEEGAN  
 CHECKED BY: A. MORETTI  
 DATE CHECKED: 4-6-00

**STATE OF CONNECTICUT**  
 DEPARTMENT OF TRANSPORTATION

ENGINEER: PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.

PROJECT TITLE:  
**CHURCH STREET SOUTH EXTENSION  
 OVER NEW HAVEN INTERLOCKING  
 AND RAIL YARD**

CADD FILE: AD2R703H014.HWY PLOTTED DATE: 11-2-00

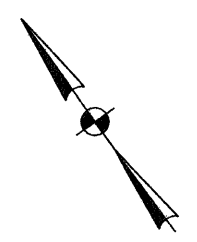
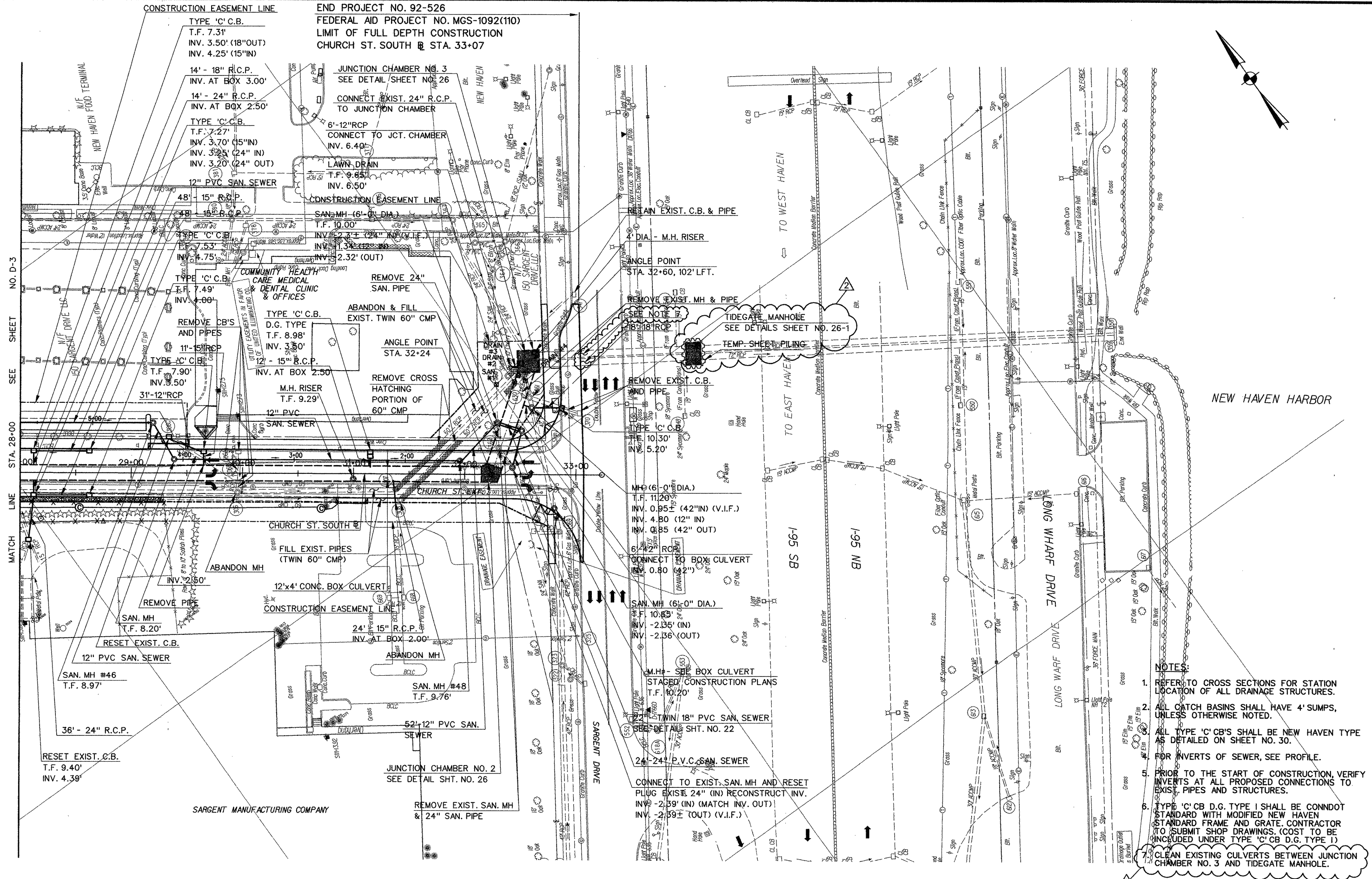
TOWN: **NEW HAVEN**

DRAWING TITLE:  
**PLAN SHEET**

PROJECT NO.: **92-526**

DRAWING NO.:

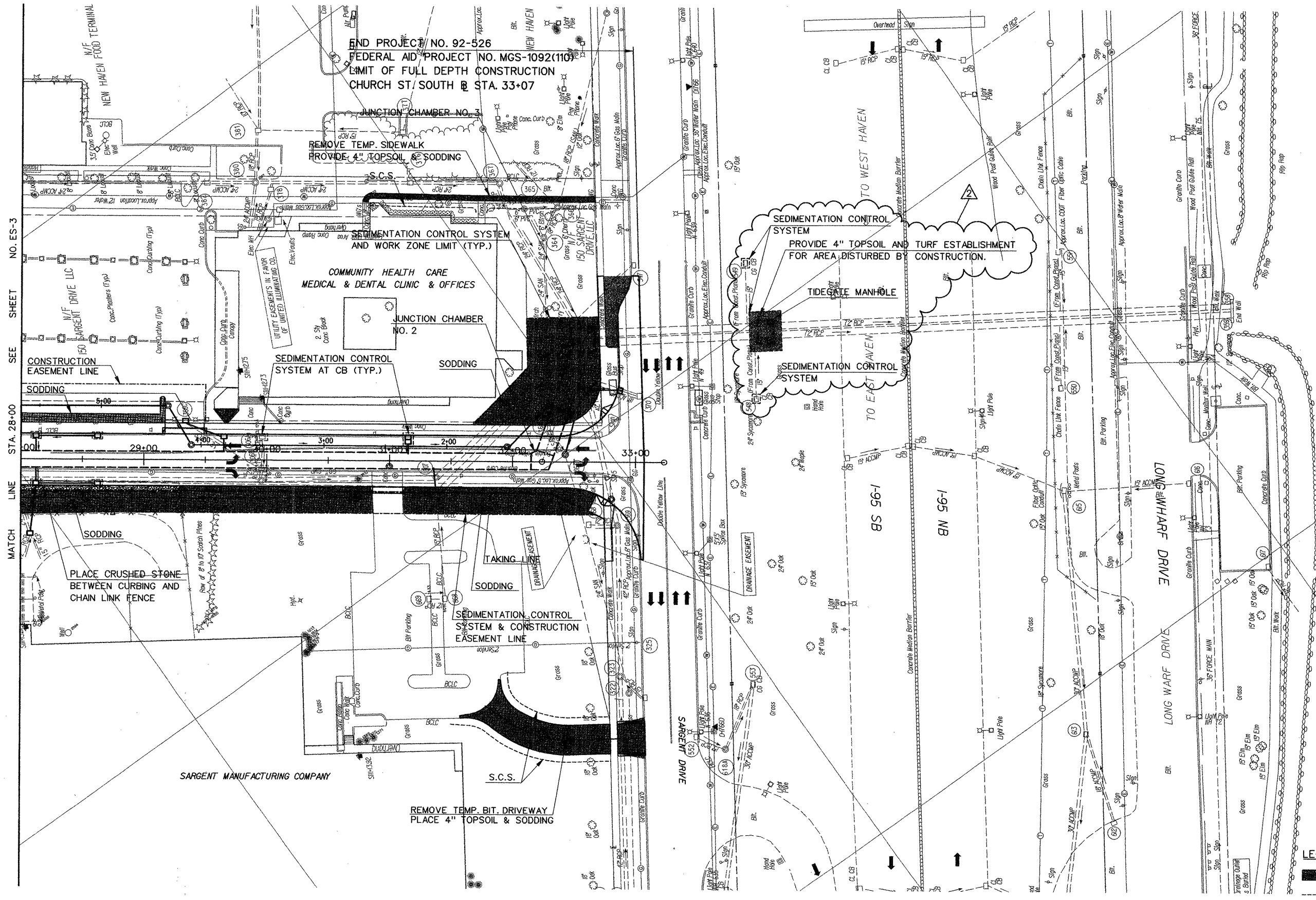
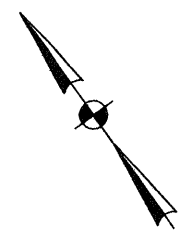
SHEET NO.: **50**



- NOTES:**
- REFER TO CROSS SECTIONS FOR STATION LOCATION OF ALL DRAINAGE STRUCTURES.
  - ALL CATCH BASINS SHALL HAVE 4' SUMPS, UNLESS OTHERWISE NOTED.
  - ALL TYPE 'C' CB'S SHALL BE NEW HAVEN TYPE AS DETAILED ON SHEET NO. 30.
  - FOR INVERTS OF SEWER, SEE PROFILE.
  - PRIOR TO THE START OF CONSTRUCTION, VERIFY INVERTS AT ALL PROPOSED CONNECTIONS TO EXIST. PIPES AND STRUCTURES.
  - TYPE 'C' CB D.G. TYPE I SHALL BE CONDOT STANDARD WITH MODIFIED NEW HAVEN STANDARD FRAME AND GRATE. CONTRACTOR TO SUBMIT SHOP DRAWINGS. (COST TO BE INCLUDED UNDER TYPE 'C' CB D.G. TYPE I)
  - CLEAN EXISTING CULVERTS BETWEEN JUNCTION CHAMBER NO. 3 AND TIDEGATE MANHOLE.

**ADDENDUM NO. 2**

1/3/99, 3/99, 8/99, 11/99, 2/00, 5/00, 8/00, 11/00, 2/01, 5/01, 8/01, 11/01, 2/02, 5/02, 8/02, 11/02, 2/03, 5/03, 8/03, 11/03, 2/04, 5/04, 8/04, 11/04, 2/05, 5/05, 8/05, 11/05, 2/06, 5/06, 8/06, 11/06, 2/07, 5/07, 8/07, 11/07, 2/08, 5/08, 8/08, 11/08, 2/09, 5/09, 8/09, 11/09, 2/10, 5/10, 8/10, 11/10, 2/11, 5/11, 8/11, 11/11, 2/12, 5/12, 8/12, 11/12, 2/13, 5/13, 8/13, 11/13, 2/14, 5/14, 8/14, 11/14, 2/15, 5/15, 8/15, 11/15, 2/16, 5/16, 8/16, 11/16, 2/17, 5/17, 8/17, 11/17, 2/18, 5/18, 8/18, 11/18, 2/19, 5/19, 8/19, 11/19, 2/20, 5/20, 8/20, 11/20, 2/21, 5/21, 8/21, 11/21, 2/22, 5/22, 8/22, 11/22, 2/23, 5/23, 8/23, 11/23, 2/24, 5/24, 8/24, 11/24, 2/25, 5/25, 8/25, 11/25, 2/26, 5/26, 8/26, 11/26, 2/27, 5/27, 8/27, 11/27, 2/28, 5/28, 8/28, 11/28, 2/29, 5/29, 8/29, 11/29, 2/30, 5/30, 8/30, 11/30, 2/31, 5/31, 8/31, 11/31, 2/32, 5/32, 8/32, 11/32, 2/33, 5/33, 8/33, 11/33, 2/34, 5/34, 8/34, 11/34, 2/35, 5/35, 8/35, 11/35, 2/36, 5/36, 8/36, 11/36, 2/37, 5/37, 8/37, 11/37, 2/38, 5/38, 8/38, 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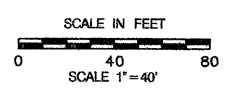
NEW HAVEN HARBOR

- LEGEND**
- 4" TOPSOIL & SODDING
  - SEDIMENTATION CONTROL SYSTEM
  - 4" TOPSOIL & TURF ESTABLISHMENT

**ADDENDUM NO. 2**

13.17.36  
08.11.00.2000  
C:\p\0416703\churchst\addendum no. 2\add2\7031026.swg

REV.	DATE	DESCRIPTION	SHEET NO.
11-7-00		ADDENDUM NO. 2	68



DESIGNER:  
A. MARGIOTTA

DRAFTER:  
M. OFFENBERG

CHECKED BY:  
A. MORETTI

DATE CHECKED: 4-9-00

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

ENGINEER:  
PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT TITLE:  
**CHURCH STREET SOUTH EXTENSION  
OVER NEW HAVEN INTERLOCKING  
AND RAIL YARD**

CADD FILE: AD2R703H026.SEC PLOTTED DATE: 11-2-00

TOWN:  
**NEW HAVEN**

DRAWING TITLE:  
**TURF ESTABLISHMENT, SEDIMENTATION  
AND EROSION CONTROL PLAN**

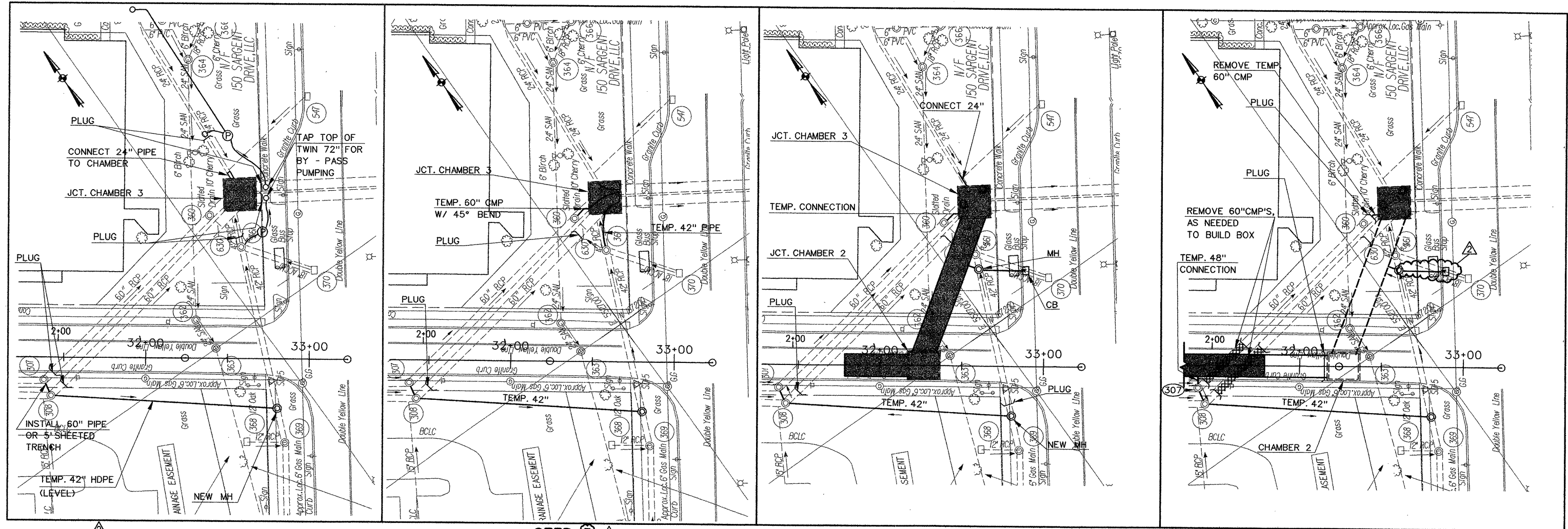
PROJECT NO.:  
**92-526**

DRAWING NO.:  
**ES-4**

SHEET NO.:  
**68**

# SUGGESTED SEQUENCE OF OPERATIONS

## 4' X 12' PRECAST CONCRETE BOX CULVERT CONSTRUCTION



### STEP 2 - BASE OF JCT. CHAMBER NO. 3

1. INSTALL CONNECTION 308 TO 307 : 60" CMP OR 5' WIDE SHEETED TRENCH W/ CRUSHED STONE BASE.
2. INSTALL TEMP. 42" PIPE & NEW MH ON EXIST. 42" RCP.
3. TAP TOP OF TWIN 72" PIPE FOR BYPASS PUMPING FOR BASE FLOWS.
4. PLUG 60" PIPE AT 308 AND 307.
5. PLUG TWIN 72" PIPES TO KEEP OUT TIDE.
6. BYPASS PUMP BASE FLOWS AS INDICATED.
7. INSTALL BASE AT JCT. CHAMBER NO. 3.
8. CONNECT 24" PIPE TO CHAMBER.

#### LIMITED TIME PERIOD:

1. PROVIDE BYPASS PUMPING FOR BASE FLOW.
2. PLUG 24" AND 42".
3. EXCAVATE AND INSTALL BASE OF CHAMBER 3.

### STEP 3 - TIDE GATE MANHOLE

1. INSTALL TEMP. 60" PIPE: MH 360 TO JCT. CHAMBER NO. 3.
2. INSTALL TEMP. 42" PIPE: MH 361 TO JCT. CHAMBER NO. 3.
3. REMOVE PLUG IN 60" PIPE AT 307.
4. REMOVE PLUG IN 24" RCP AND 42" RCP.
5. USE TEMPORARY FLEXIBLE PIPE TO MAINTAIN THRU - FLOW WHILE REST OF JCT. CHAMBER IS BUILT.

### STEP 1 - TIDE GATE MANHOLE

1. EXCAVATE AROUND THE TWIN 72" RCPs FOR TIDE GATE MANHOLE.
2. SUPPORT THE TWIN 72" RCPs IN PLACE AND EXCAVATE UNDER PIPES TO INSTALL CRUSHED STONE AND TO CONSTRUCT BASE SLAB OF TIDE GATE MANHOLE. MAINTAIN FLOW INSIDE TWIN 72" RCPs.
3. CONSTRUCT THE WALLS OF TIDE GATE MANHOLE AROUND THE EXISTING TWIN 72" RCPs.
4. DURING LOW TIDE AND A PERIOD WITH LOW CHANCE OF RAIN, CUT INTO THE TOP OF THE TWIN 72" RCPs AND INSTALL TEMPORARY INFLATABLE PLUGS IN EACH PIPE AT A POINT UPSTREAM AND DOWNSTREAM OF TIDE GATE MANHOLE. INSTALL A TOTAL OF 4 TEMPORARY PLUGS IN THE TWIN 72" RCPs.
- 4A. INSTALL UP TO 3 OTHER TEMPORARY PLUGS IN TRIBUTARY DRAIN LINES (UP TO 60" DIAMETER) AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 4B. UNTIL THE TIDE VALVES ARE INSTALLED AND OPERATIONAL, PROVIDE FOR THE PROMPT DEFLATION AND REMOVAL OF THE TEMPORARY PLUGS AT THE DIRECTION OF THE ENGINEER, SHOULD RAINFALL BE FORECAST.
5. COMPLETELY REMOVE THE TWIN 72" RCPs BETWEEN THE WALLS OF TIDE GATE MANHOLE.
6. INSTALL TIDE VALVES IN TIDE GATE MANHOLE.
7. WHEN VALVES ARE INSTALLED, REMOVE ALL TEMPORARY PLUGS AT ALL LOCATIONS.
8. AFTER VALVES ARE INSTALLED, THE EXISTING TIDE GATES ARE TO BE REMOVED OR FULLY OPENED BY OTHERS AS DIRECTED BY THE ENGINEER.
9. COMPLETE CONSTRUCTION OF TIDE GATE MANHOLE.

### STEP 4

AFTER CHAMBER 3 IS COMPLETED:

1. DIVERT 42" TO 60" CMP 308. PLUG AT NEW MH.
2. CONSTRUCT BOX FROM CHAMBER 3 TO CHAMBER 2 AND JUST SHORT OF THE EXISTING 60" CMP PIPES.
3. INSTALL NEW MH AND CONNECT 42" RCP TO BOX.
4. REMOVE PLUG AT NEW MH & ALLOW 42" PIPE TO FLOW TO BOX.

### STEP 5

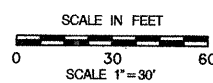
1. PLUG 60" CMP AT NORTHERLY MH 307 REMOVE TEMP 60" CMP 360 TO JCT. CHAMBER NO. 1 & PLUG OPENING IN JCT. CHAMBER.
2. PLUG BOX AT JCT. CHAMBER 2.
3. CONTINUE BOX CONSTRUCTION ACROSS EXIST. TWIN 60" CMP.
4. AFTER BOX PASSES NORTHERLY MH OF 60" CMP INSTALL TEMP. 48" CONNECTION MH 307 TO BOX. (STA 31+00)
5. PLUG BOX JUST UPSTREAM OF THIS CONNECTION. REMOVE PLUG AT JCT. CHAMBER NO. 2.
6. CONTINUE TO VICINITY OF JCT. CHAMBER 1.

#### LIMITED TIME PERIOD:

1. WORK 24 HRS. / DAY, 7 DAYS PER WEEK FROM JCT. CHAMBER NO. 3 STA. 29+00.

### ADDENDUM NO. 2

REV.	DATE	DESCRIPTION	SHEET NO.
11-7-00		ADDENDUM NO. 2	75



DESIGNER: J. BURCKARDT  
 DRAFTER: M. DEEGAN  
 CHECKED BY: A. MARGIOTTA  
 DATE CHECKED: 3-7-00



STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

ENGINEER: PARSONS BRINCKERHOFF QUAE & DOUGLAS, INC.

PROJECT TITLE:  
 CHURCH STREET SOUTH EXTENSION  
 OVER NEW HAVEN INTERLOCKING  
 AND RAIL YARD

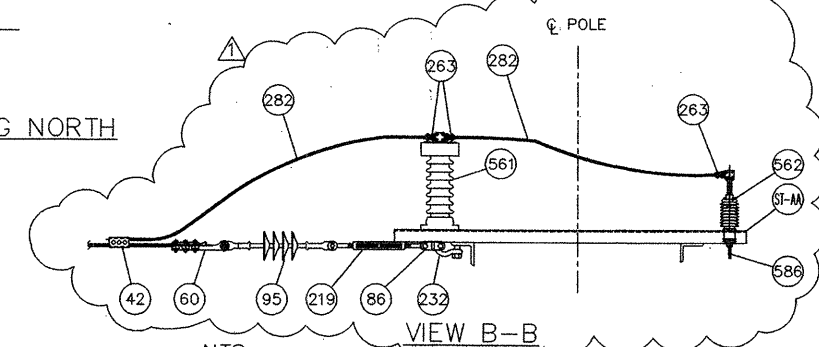
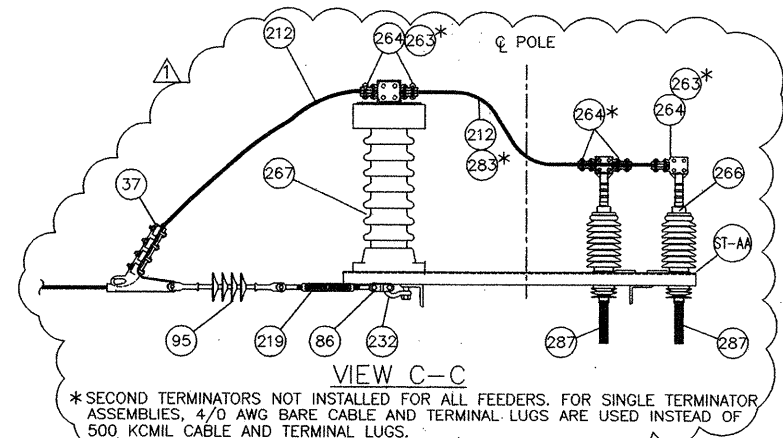
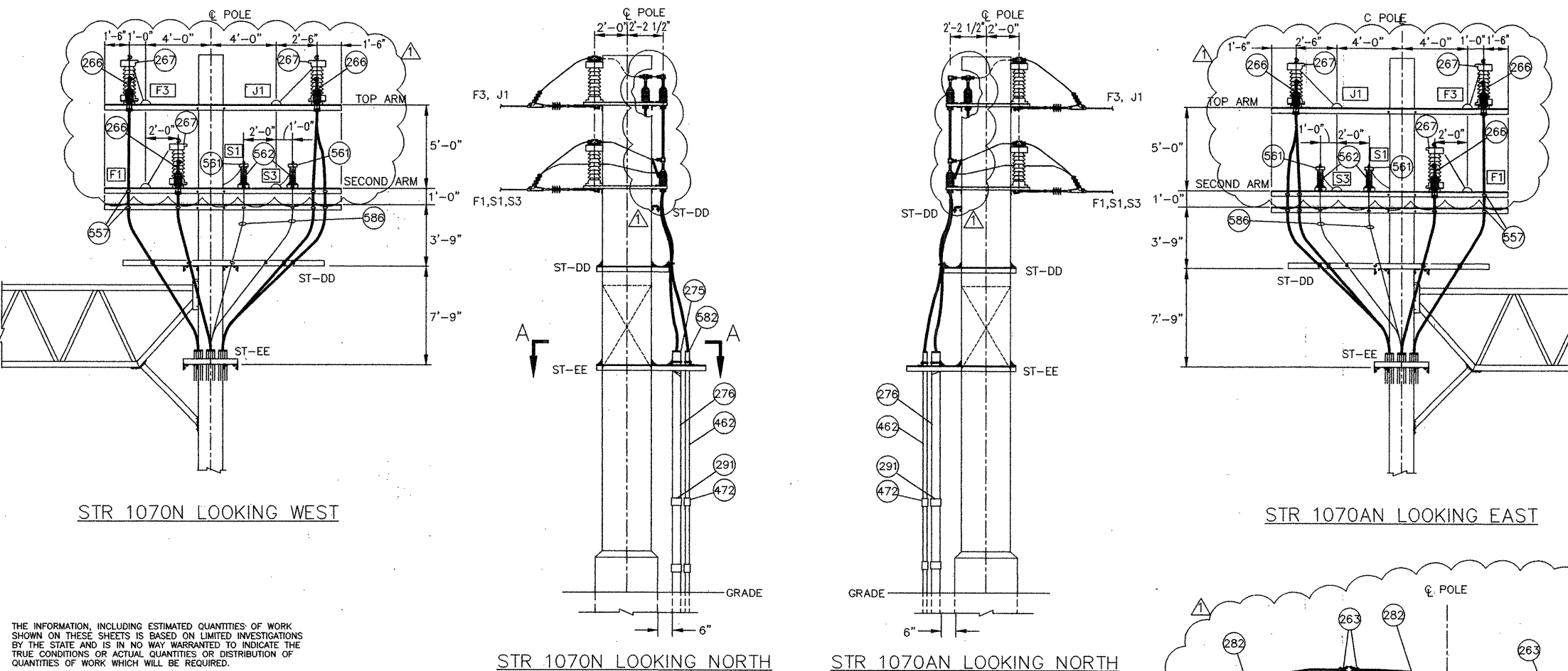
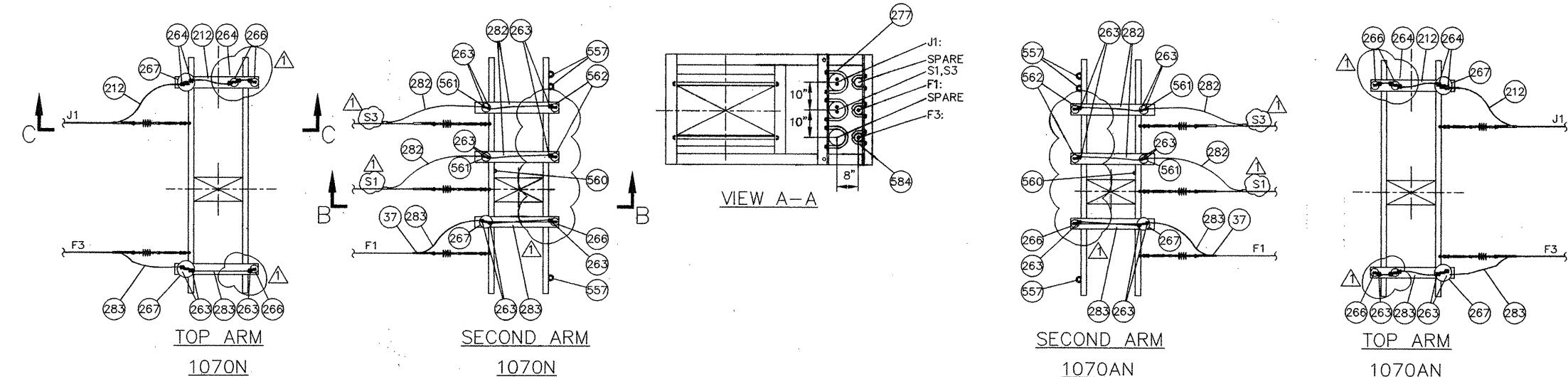
CADD FILE: AD2R703H018A.HWY PLOTTED DATE: 11-2-00

TOWN: NEW HAVEN  
 DRAWING TITLE: BOX CULVERT  
 STAGED CONSTRUCTION

PROJECT NO.: 92-526  
 DRAWING NO.: 1 OF 2  
 SHEET NO.: 75



BILL OF MATERIALS			
PART No.	METRO-NORTH No.	DESCRIPTION	QTY
37	10202492	STRAIN CLAMP CONNECTOR, BZ WITH PIN AND COTTER KEY	6
42	10202792	UNIVERSAL PARALLEL CLAMP	4
60	10201621	DEAD END CLAMP, SEC 21-RR	4
86	10206210	LINK CLEVIS CLEVIS	10
95	10445113	SUSPENSION INSULATOR 25,000 LB	10
212	10997113	500 KCMIL HARD DRAWN COPPER CONDUCTOR	FT
219	49754369	3/4" X 6" EYE/JAW TURNBUCKLE	10
232	10850260	3/4" ANCHOR SHACKLE W/7/8" PIN	10
263		4-HOLE U-BOLT TERMINAL LUG (TO SUIT 2/0 & 4/0 AWG COPPER CONDUCTOR)	24
264		4-HOLE U-BOLT TERMINAL LUG (TO SUIT 500 KCMIL COPPER CONDUCTOR)	10
266		35KV PORCELAIN CABLE TERMINATOR	8
267		27KV SURGE ARRESTER	6
275		6" CONDUIT SEALING END AND SUPPORT	4
276		6" RIGID ALUMINUM CONDUIT	FT
277		2 PIECE STRAP FOR 6" CONDUIT	AS REQ'D
282		2/0 AWG HARD DRAWN COPPER CONDUCTOR	FT
283		4/0 AWG HARD DRAWN COPPER CONDUCTOR	FT
287		INSULATED CABLE 750 KCMIL 35 KV 133% INSULATION	FT
291		6" CONDUIT COUPLER	AS REQ'D
462		4" RIGID ALUMINUM CONDUIT	FT
472		4" CONDUIT COUPLER	AS REQ'D
480		4" CAP FOR ALUMINUM CONDUIT	2
557		CABLE SUPPORT CLAMP FOR 1/C, SIZE 1 7/8"	AS REQ'D
560		CABLE SUPPORT CLAMP FOR 1/C, SIZE 1 5/8"	AS REQ'D
561		18KV SURGE ARRESTER	4
562		25KV PORCELAIN CABLE TERMINATOR	4
572		6" CAP FOR ALUMINUM CONDUIT	2
582		2" CONDUIT SEALING END AND SUPPORT	4
584		2 PIECE STRAP FOR 4" CONDUIT	AS REQ'D
586		INSULATED CABLE 500 KCMIL 25KV 133% INSULATION	FT
ST-AA		SUPPORT FOR CABLE TERMINATORS	AS REQ'D
ST-DD		SUPPORT FOR CABLE CLAMPS	AS REQ'D
ST-EE		SUPPORT FOR CONDUITS	AS REQ'D



DISK FILENAME: E-131-1.DWG PROJECT CONTROL DATE: 10/30/00

- THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.
- NOTES:
1. THE CONTRACTOR SHALL LOCATE AND DETERMINE IDENTIFICATION OF EACH PIN/WIRE CONNECTION.
  2. NOT USED.
  3. THE DISTANCE BETWEEN CONDUIT AND CABLE SUPPORTS IS NOMINAL. THE CONTRACTOR MAY VARY THIS DISTANCE TO SUIT FIELD CONDITIONS.
  4. TRACTION POWER FEEDER WIRES (F1, F3, ETC) ARE SIZED TO USE AWG 4/0 BARE COPPER WIRE OVERHEAD. TROLLEY FEEDER WIRES (J1, ETC) ARE SIZED TO USE 500 KCMIL BARE COPPER WIRE OVERHEAD. SIGNAL POWER WIRES (S1, S3, ETC) ARE SIZED TO USE AWG 2/0 BARE COPPER WIRE OVERHEAD. CONTRACTOR TO USE APPROPRIATE SIZE BARE WIRE AND TERMINAL PARTS BASED ON THE PIN/WIRE BEING CONNECTED TO OVERHEAD.
  5. SEE DRAWING E-119 FOR TYPICAL NOTES AND DETAILS REGARDING STRUCTURE GROUNDING.
  6. SUITABLE SUPPORTS AND EQUIPMENT SHALL BE INSTALLED TO COMPLY WITH CABLE MANUFACTURER'S RECOMMENDED BENDING RADIUS.
  7. AERIAL GROUND WIRE (NOT SHOWN) SHALL BE CONNECTED TO OVERHEAD BRIDGE GROUND LOOPS IN AT LEAST TWO LOCATIONS. SEE GROUNDING AND BONDING SPECIFICATION AND DWG E-133.
  8. DEADEND CONSTRUCTION IS TYPICAL FOR J1; FOR F1 & F3; AND FOR S1 & S3, RESPECTIVELY.

**Raytheon  
Urban Services Corp.**

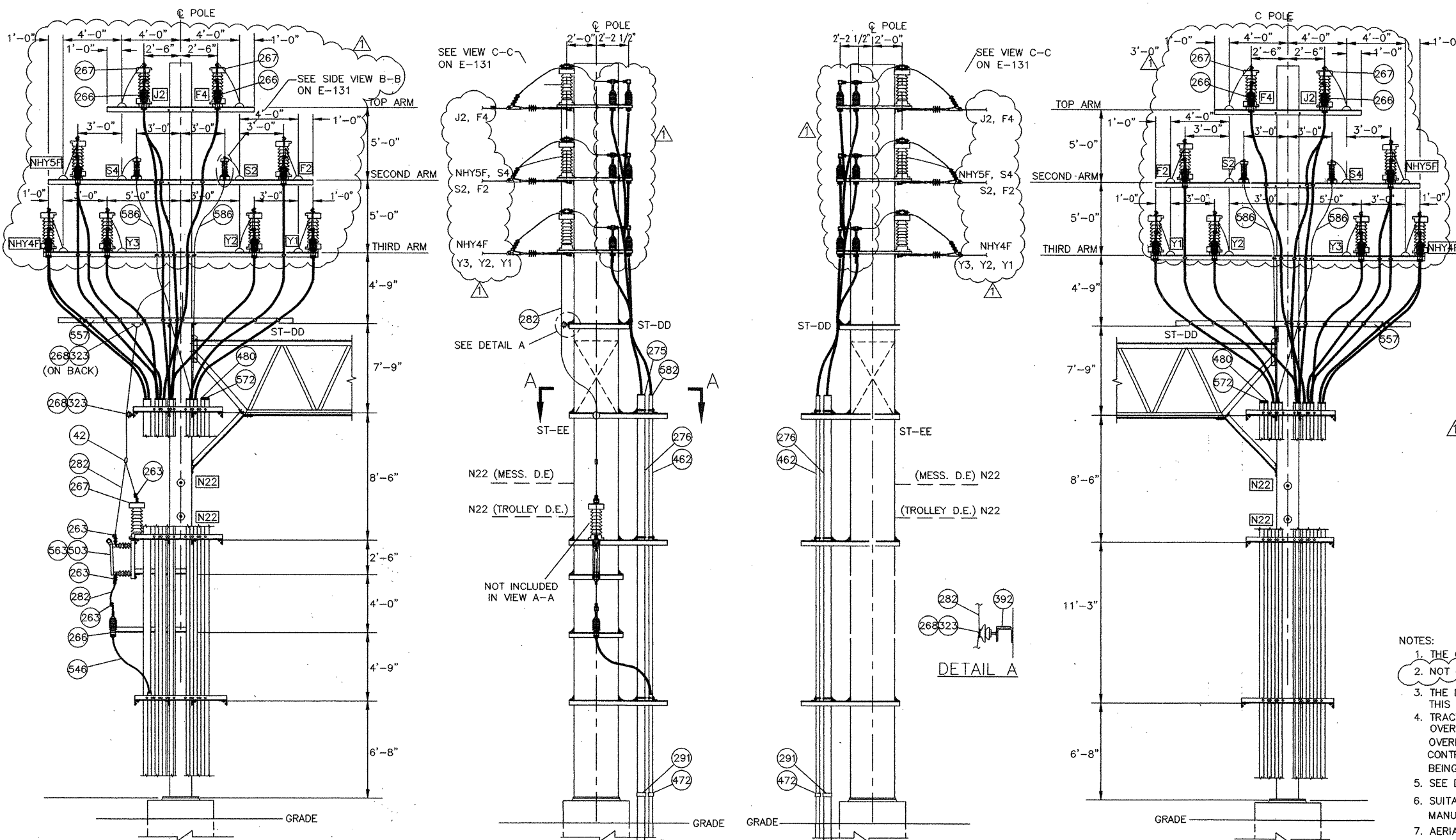
SUBCONTRACTOR  
**elec track**  
A DIVISION OF HEERY INTERNATIONAL, INC.

ADDENDUM NO. 2		ENGINEER: ELECTRACK	
NO.	DATE	DESIGNER: DJ	DRAFTER: HJ
1/00	REDRAWN	APPROVED: SDB	CHECKER: CDJ
REVISIONS		DATE: 07/02/99	
		STRUCTURE NO.	
		GRADE LOG NO.	
		STRUCTURE SHEET NO.	
		E-131	

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

CHURCH STREET SOUTH  
EXTENSION BRIDGE

STR 1070N AND 1070AN  
ASSEMBLY DETAIL



BILL OF MATERIALS			
PART No.	METRO-NORTH No.	DESCRIPTION	QTY
37	10202492	STRAIN CLAMP CONNECTOR, BZ WITH PIN AND COTTER KEY	16
42	10202792	UNIVERSAL PARALLEL CLAMP	6
60	10201621	DEAD END CLAMP, SEC 21-RR	4
86	10206210	LINK CLEVIS CLEVIS	20
95	10445113	SUSPENSION INSULATOR 25,000 LB	20
212	10997113	500 KCMIL HARD DRAWN COPPER CONDUCTOR	FT
219	49754369	3/4" X 6" EYE/JAW TURNBUCKLE	20
232	10850260	3/4" ANCHOR SHACKLE W/7/8" PIN	20
263		4-HOLE U-BOLT TERMINAL LUG (TO SUIT 2/0 & 4/0 AWG COPPER CONDUCTOR)	46
264		4-HOLE U-BOLT TERMINAL LUG (TO SUIT 500 KCMIL COPPER CONDUCTOR)	30
266		35KV PORCELAIN CABLE TERMINATOR	23
267		27KV SURGE ARRESTER	17
268		35KV PIN TYPE PORCELAIN INSULATOR W/RESILIENT PAD & #6 TIE WIRE	5
275		6" CONDUIT SEALING END AND SUPPORT	8
276		6" RIGID ALUMINUM CONDUIT	FT
277		2 PIECE STRAP FOR 6" CONDUIT	AS REQ'D
282		2/0 AWG HARD DRAWN COPPER CONDUCTOR	FT
283		4/0 AWG HARD DRAWN COPPER CONDUCTOR	FT
287		INSULATED CABLE 750 KCMIL 35 KV 133% INSULATION	FT
291		6" CONDUIT COUPLER	AS REQ'D
323		FORGED STEEL PIN FOR 35KV PIN INSULATOR	5
392		MOUNTING BRACKET, PIN INSULATOR	5
462		4" RIGID ALUMINUM CONDUIT	FT
472		4" CONDUIT COUPLER	AS REQ'D
480		4" CAP FOR ALUMINUM CONDUIT	2
503		27KV CLASS FUSE CUT-OUT ASSEMBLY W/O FUSE	1
546		35KV 1/C 1/0 AWG, 19 STRAND EPR INSULATION	FT
557		CABLE SUPPORT CLAMP FOR 1/C SIZE 1 7/8"	AS REQ'D
560		CABLE SUPPORT CLAMP FOR 1/C, SIZE 1 5/8"	AS REQ'D
561		18KV SURGE ARRESTER	4
562		25KV PORCELAIN CABLE TERMINATOR	4
563		FUSE FOR FUSE CUTOUT ASSEMBLY (SEE NOTE 2 ON E-58)	1
572		6" CAP FOR ALUMINUM CONDUIT	2
582		4" CONDUIT SEALING END AND SUPPORT	11
584		2 PIECE STRAP FOR 4" CONDUIT	AS REQ'D
586		INSULATED CABLE 500 KCMIL 25KV 133% INSULATION	FT
ST-DD		SUPPORT FOR CABLE CLAMPS	AS REQ'D
ST-EE		SUPPORT FOR CONDUITS	AS REQ'D

- NOTES:
- THE CONTRACTOR SHALL LOCATE AND DETERMINE IDENTIFICATION OF EACH PIN/WIRE CONNECTION.
  - NOT USED.
  - THE DISTANCE BETWEEN CONDUIT AND CABLE SUPPORTS IS NOMINAL. THE CONTRACTOR MAY VARY THIS DISTANCE TO SUIT FIELD CONDITIONS.
  - TRACTION POWER FEEDER WIRES (F2, F4, ETC) ARE SIZED TO USE AWG 4/0 BARE COPPER WIRE OVERHEAD. TROLLEY FEEDER WIRES (J2, NHY4F, ETC) ARE SIZED TO USE 500 KCMIL BARE COPPER WIRE OVERHEAD. SIGNAL POWER WIRES (S2, S4, ETC) ARE SIZED TO USE AWG 2/0 BARE COPPER WIRE. CONTRACTOR TO USE APPROPRIATE SIZE BARE WIRE AND TERMINAL PARTS BASED ON THE PIN/WIRE BEING CONNECTED TO OVERHEAD.
  - SEE DRAWING E-119 FOR TYPICAL NOTES AND DETAILS REGARDING STRUCTURE GROUNDING.
  - SUITABLE SUPPORTS AND EQUIPMENT SHALL BE INSTALLED TO COMPLY WITH CABLE MANUFACTURER'S RECOMMENDED BENDING RADIUS.
  - AERIAL GROUND WIRE (NOT SHOWN) SHALL BE CONNECTED TO OVERHEAD BRIDGE GROUND LOOPS IN AT LEAST TWO LOCATIONS. SEE GROUNDING AND BONDING SPECIFICATION AND DWG E-133.
  - FOR EACH STRUCTURE, PROVIDE A GUY WIRE (NOT SHOWN) UNDER THE BRIDGE FOR ADEQUATE SUPPORT.
  - DEADEND CONSTRUCTION IS TYPICAL FOR Y1, Y2, & Y3; FOR J2, NHY5F & NHY4F; FOR S2 & S4; AND FOR F2 & F4, RESPECTIVELY.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

CHURCH STREET SOUTH  
EXTENSION BRIDGE

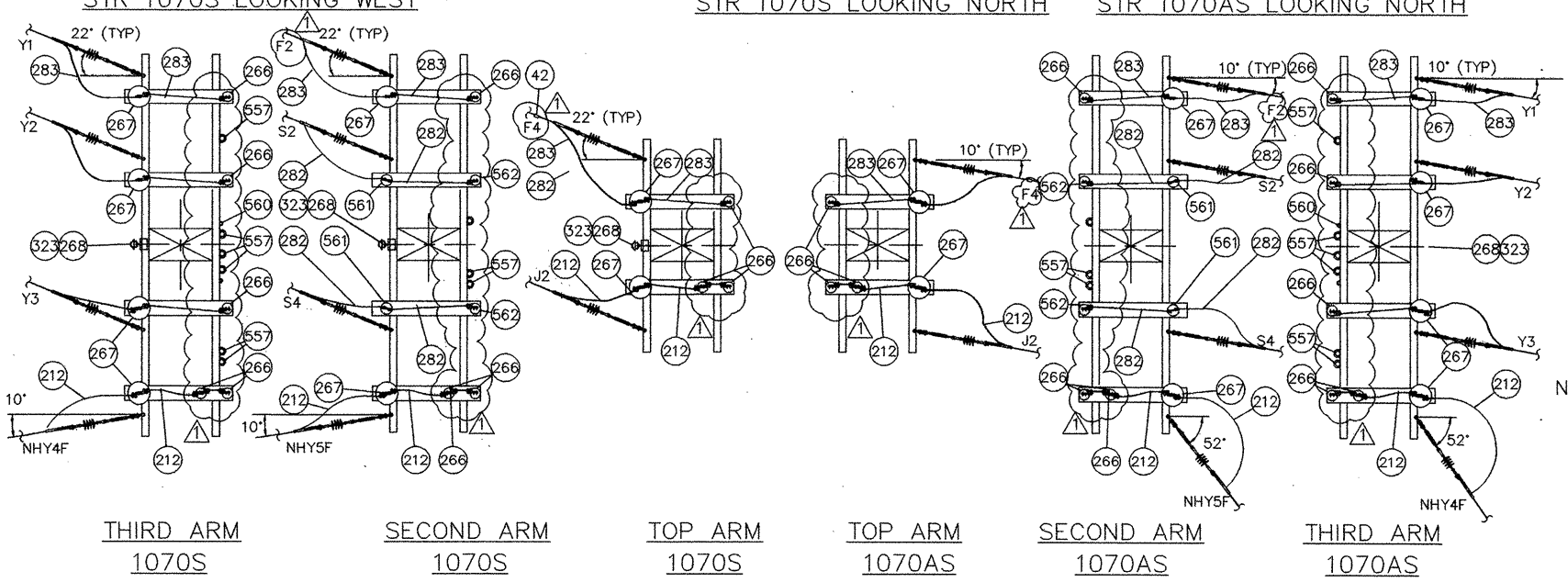
STR 1070S AND 1070AS  
ASSEMBLY DETAIL

ADDENDUM NO. 2

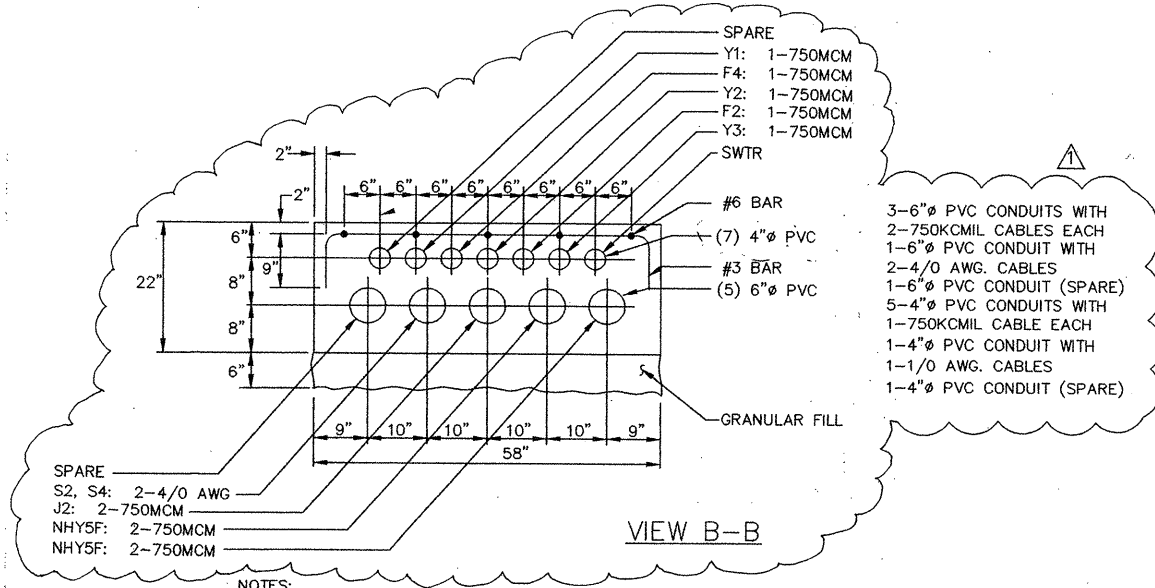
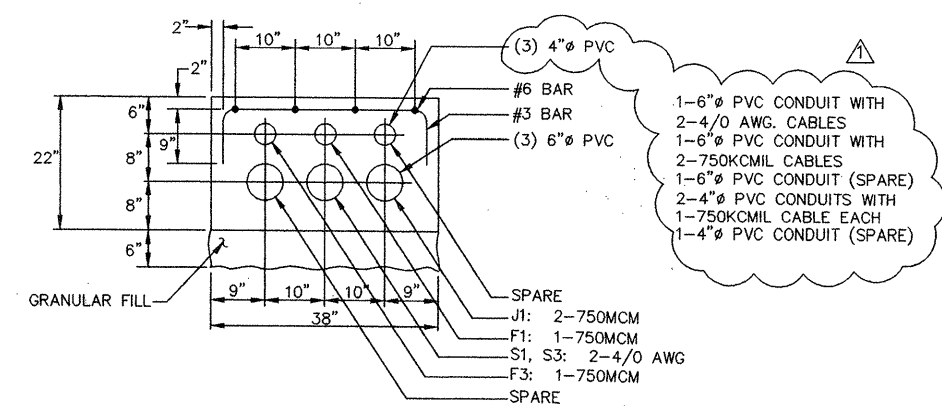
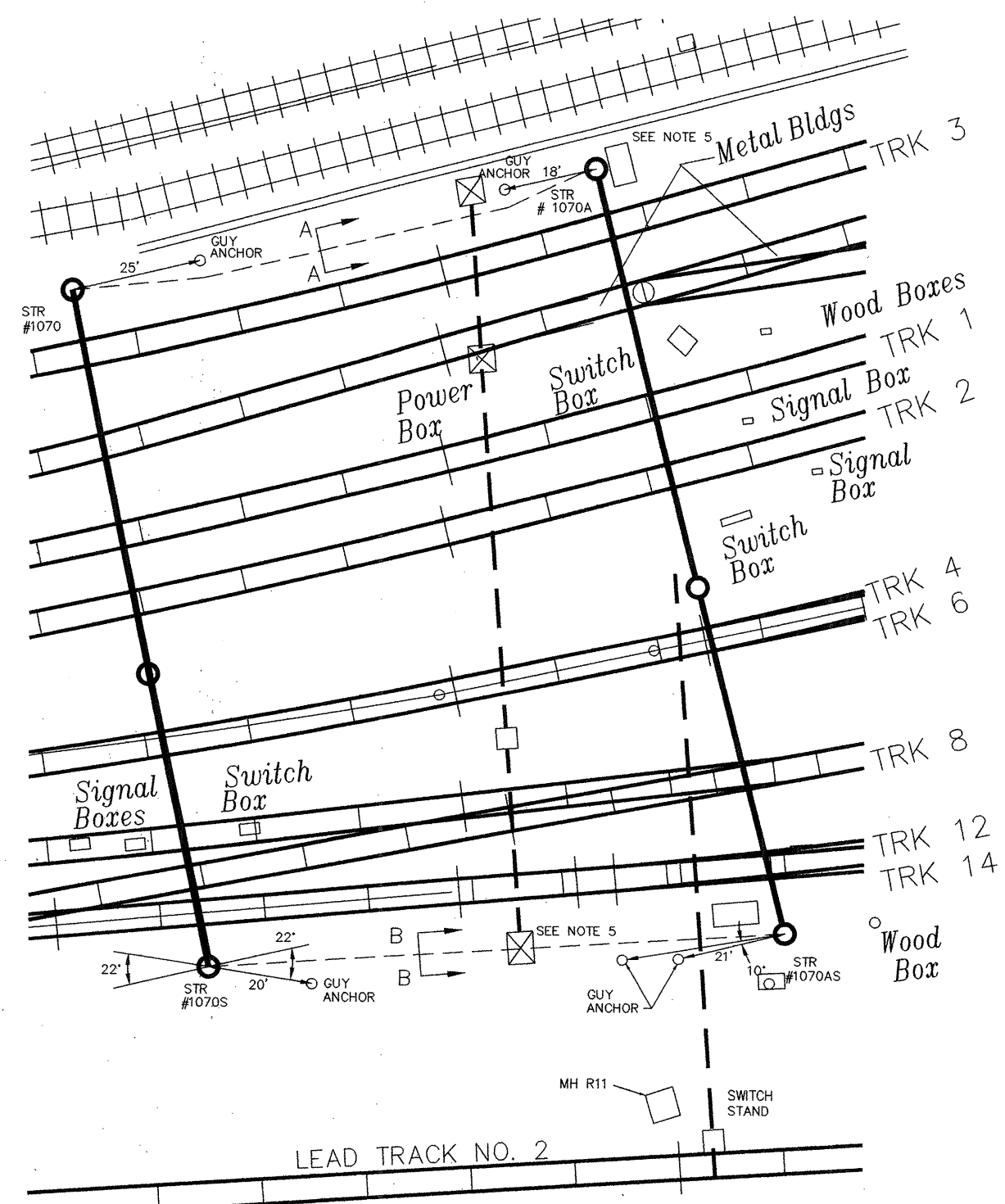
**Raytheon Urban Services Corp.**  
SUBCONTRACTOR  
**elec track**  
A DIVISION OF HEERY INTERNATIONAL, INC.

ENGINEER: ELECTRACK	DESIGNER: DJ	DRAFTER: HJ	CHECKER: CDJ
APPROVED: SDB	DATE: 07/02/99		
STRUCTURE NO.	BRIDGE LOT NO.	STRUCTURE SHEET NO. E-132	

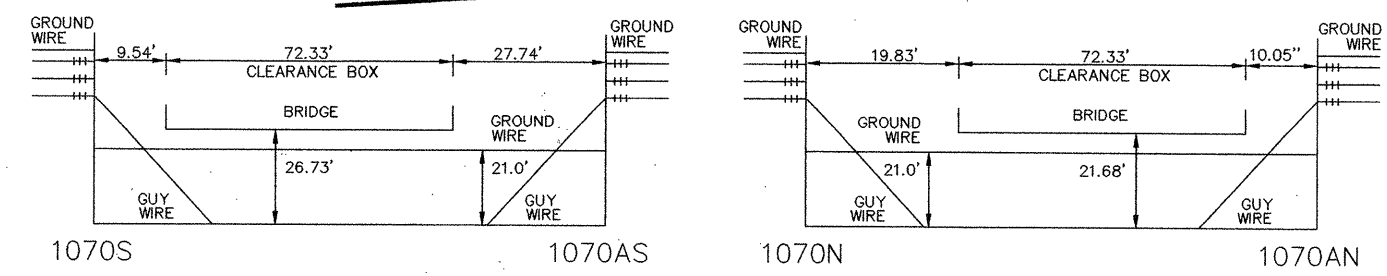
PROJECT CONTROL DATE: 10/30/00  
DISK FILENAME: IE-132-1.DWG



F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEET
CONN.	CONN.	NEW HAVEN		92-526	2000	114-5	



- NOTES:
- USE PVC CONDUIT UNDERGROUND AND ALUMINUM CONDUIT ABOVE GROUND FOR ALL CABLES. MAINTAIN MINIMUM CONDUIT BEND RADIUS GREATER THAN MINIMUM MANUFACTURER RECOMMENDED CABLE BEND RADIUS.
  - INSTALL UNDERGROUND DUCTBANKS SUCH THAT THE TOP OF THE DUCTBANK IS AT 2' BELOW GRADE. BOTTOM OF TRENCH SHALL INCLUDE 6" OF GRANULAR FILL.
  - ALL UNDERGROUND CONDUITS SHALL BE STUBBED UP IN CONCRETE ENCASUREMENT TO THE TOP OF THE FOUNDATION AT THE RELATED STRUCTURE.
  - ALL DUCTBANKS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE N.E.C., N.E.S.C., A.R.E.A., AND ANY OTHER APPLICABLE CODES AND STANDARDS.
  - VARIOUS STRUCTURES, SNOW MELTER TRANSFORMER, GUY ANCHORS, CABINETS, AND MANHOLES ARE SHOWN FOR REFERENCE ONLY.



DIAGRAMMATIC VIEW OF CHURCH STREET EXTENSION BRIDGE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

CHURCH STREET SOUTH  
EXTENSION BRIDGE

UNDERGROUND CONDUIT LAYOUT AND  
SITE PLAN FOR STR 1070 AND 1070A

NTS

**Raytheon Urban Services Corp.**

SUBCONTRACTOR

**elec track**

A DIVISION OF HEERY INTERNATIONAL, INC.

ADDENDUM NO. 2		ENGINEER: ELECTRACK	
1/00	CHANGED TO 4" CONDUIT	DESIGNER: DJ	DRAFTER: HJ
NO.	DATE	APPROVED: SDB	CHECKER: CDJ
REVISIONS		DATE: 07/02/99	
STRUCTURE NO.		BRIDGE LOG NO.	STRUCTURE SHEET NO.
			E-133

PROJECT CONTROL DATE: 10/30/00 DISK FILENAME: IE-133-1.DWG

F H W A REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEET
	CONN.	NEW HAVEN		92-526	2000	114-6	

CABLE No.	CONDUIT		CABLE FROM	CABLE TO	WIRE OR CABLE				REMARKS
	TYPE	FT			No.	No. & SIZE	INSULATION	RUN	
35 KV 133% INSULATION POWER CABLES									
	6"Ø AL/PVC		STR 1070 - NORTHSIDE	STR 1070A- NORTHSIDE	2	1/C 750 KCMIL	35 KV EPR		E-131 & E-133 (J1)
	4"Ø AL/PVC		STR 1070 - NORTHSIDE	STR 1070A- NORTHSIDE	1	1/C 750 KCMIL	35 KV EPR		E-131 & E-133 (F1)
	4"Ø AL/PVC		STR 1070 - NORTHSIDE	STR 1070A- NORTHSIDE	1	1/C 750 KCMIL	35 KV EPR		E-131 & E-133 (F3)
	6"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	2	1/C 750 KCMIL	35 KV EPR		E-132 & E-133 (J2)
	6"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	2	1/C 750 KCMIL	35 KV EPR		E-132 & E-133 (NH4F)
	6"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	2	1/C 750 KCMIL	35 KV EPR		E-132 & E-133 (NH5F)
	4"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	1	1/C 750 KCMIL	35 KV EPR		E-132 & E-133 (Y1)
	4"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	1	1/C 750 KCMIL	35 KV EPR		E-132 & E-133 (F4)
	4"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	1	1/C 750 KCMIL	35 KV EPR		E-132 & E-133 (Y2)
	4"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	1	1/C 750 KCMIL	35 KV EPR		E-132 & E-133 (F2)
	4"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	1	1/C 750 KCMIL	35 KV EPR		E-132 & E-133 (Y3)
	4"Ø AL/PVC		STR 1070 - SOUTHSIDE	SNOWMELTER TRANSFORMER	1	1/C 1/0 AWG	35 KV EPR		E-132 & E-133 (SWTR)
25KV 133% INSULATION SIGNAL CABLES									
	6"Ø AL/PVC		STR 1070 - NORTHSIDE	STR 1070A- NORTHSIDE	2	1/C 500 KCMIL	25KV EPR		E-131 & E-133 (S1,S3)
	6"Ø AL/PVC		STR 1070 - SOUTHSIDE	STR 1070A- SOUTHSIDE	2	1/C 500 KCMIL	25KV EPR		E-132 & E-133 (S2,S4)

NOTE:  
1. SEE DRAWING E-133 FOR UNDERGROUND CONDUIT LAYOUT

DISK FILENAME: IE-134-1.DWG PROJECT CONTROL DATE: 10/30/00

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

**Raytheon  
Urban Services Corp.**


SUBCONTRACTOR

**elec track**

A DIVISION OF HEERY INTERNATIONAL, INC.

ADDENDUM NO. 2

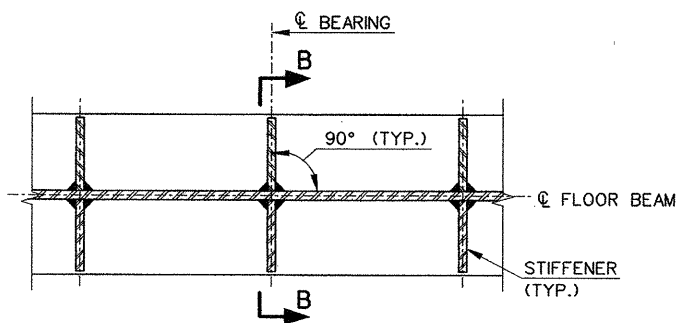
NO.	DATE	DESCRIPTION	ENGINEER: ELECTRACK
			DESIGNER: DDJ    DRAFTER: HJ    CHECKER: CDJ
			APPROVED: _____ DATE: 07/02/99
REVISIONS			STRUCTURE NO.
			BRIDGE LOG NO.    STRUCTURE SHEET NO. E-134

 STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

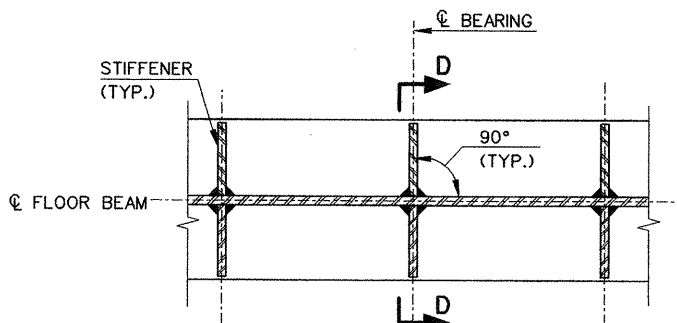
CHURCH STREET SOUTH  
EXTENSION BRIDGE

CONDUIT AND CABLE SCHEDULE  
STR 1070 AND STR 1070A





SECTION A-A  
SCALE: 1"=1'-0"

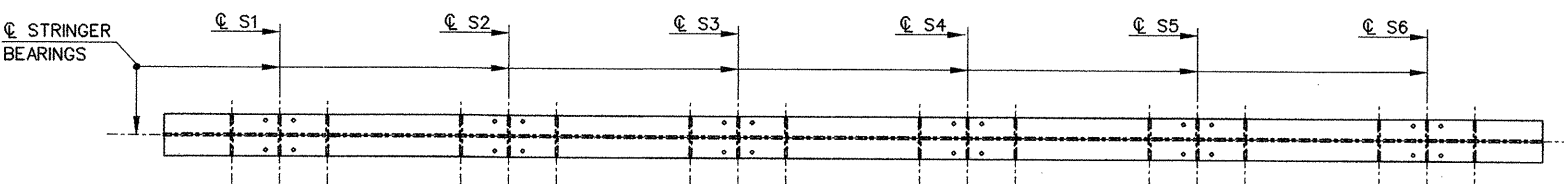
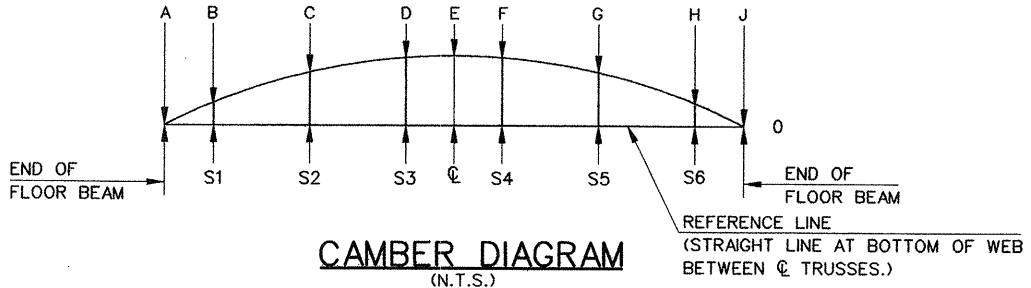


SECTION C-C  
SCALE: 1"=1'-0"

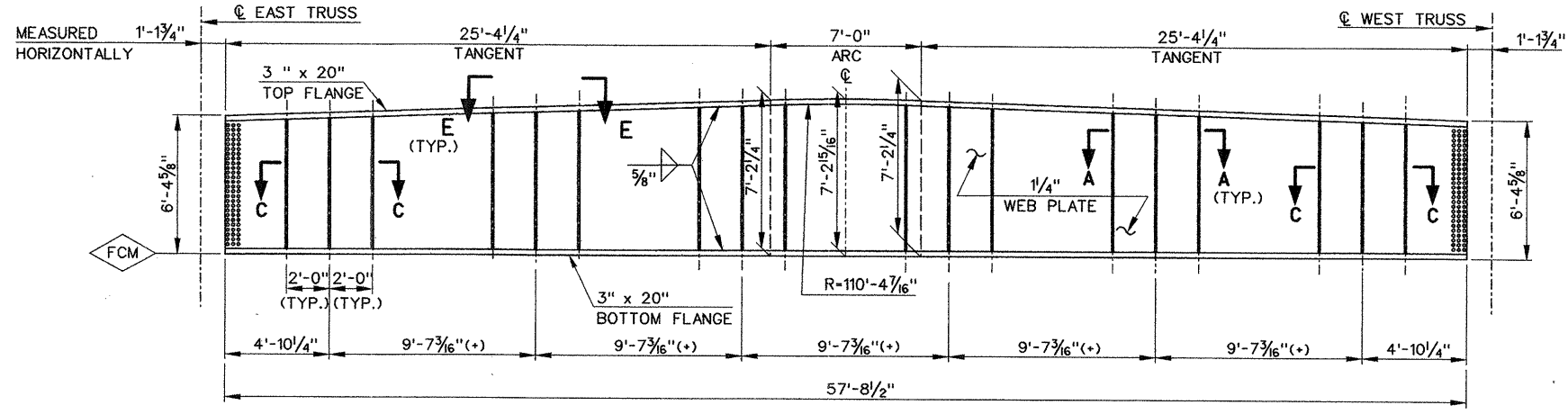
DEAD LOAD DEFLECTIONS AT STRINGER LOCATIONS (FEET)										
FLOOR BEAM	LOADING	A	B	C	D	E	F	G	H	J
FB 0 & FB 8	STRUCTURAL STEEL DEAD LOAD	0.000	0.001	0.002	0.003	0.003	0.003	0.002	0.001	0.000
	ADDITIONAL DEAD LOAD	0.000	0.002	0.004	0.006	0.006	0.006	0.004	0.002	0.000
	COMPOSITE DEAD LOAD	0.000	0.001	0.002	0.003	0.003	0.003	0.002	0.001	0.000
	TOTAL DEAD LOAD CAMBER	0.000	0.004	0.008	0.012	0.012	0.012	0.008	0.004	0.000
	TOTAL CAMBER	0.000	0.004	0.008	0.012	0.012	0.012	0.008	0.004	0.000

STRUCTURAL STEEL DEAD LOAD INCLUDES : FLOOR BEAM, FLOOR BEAM STIFFENERS, BEARINGS AND FILL PLATES, STEEL STRINGERS AND STRINGER DIAPHRAGMS.  
ADDITIONAL DEAD LOAD INCLUDES : REMAIN-IN-PLACE FORMS, CONCRETE SLAB AND HAUNCH AND UTILITIES.  
COMPOSITE DEAD LOAD INCLUDES : SIDEWALK, PARAPETS, FUTURE BITUMINOUS WEARING SURFACE AND FENCING.

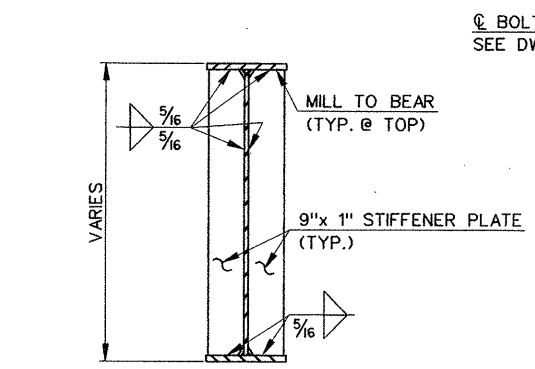
NOTE:  
CAMBERS ARE RELATIVE TO FLOOR BEAM SUPPORTS AND DO NOT ACCOUNT FOR DEFLECTIONS OF SUPPORTING MEMBERS.



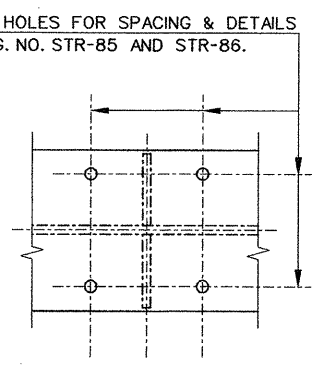
FLOOR BEAM TOP VIEW - FB 0 & FB 8  
SCALE: 1/4" = 1'-0"



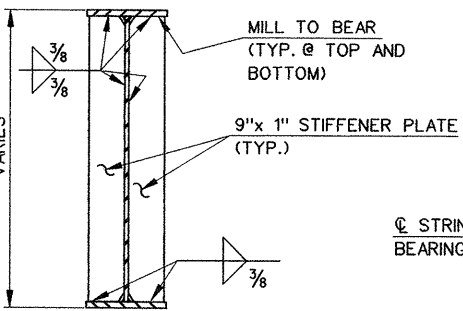
FLOOR BEAM ELEVATION - FB 0 & FB 8  
SCALE: 1/4" = 1'-0"



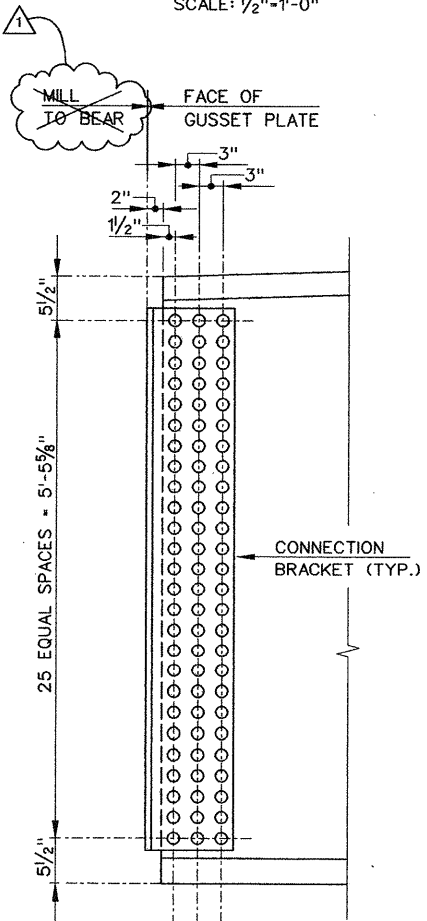
SECTION B-B  
SCALE: 1/2"=1'-0"



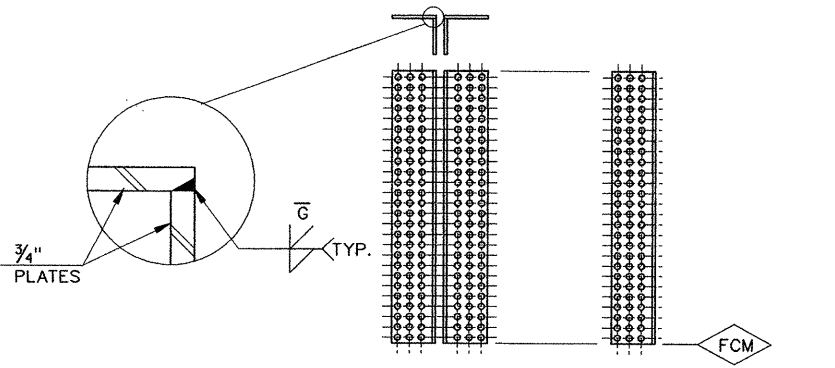
VIEW E-E  
SCALE: 1"=1'-0"



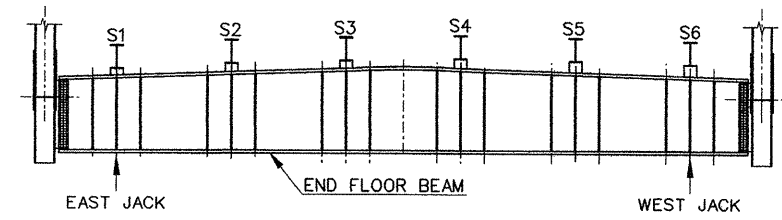
SECTION D-D  
SCALE: 1/2"=1'-0"



END BOLTING DETAIL  
SCALE: 1"=1'-0"

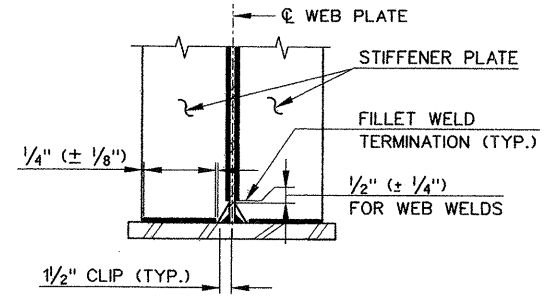


CONNECTION BRACKETS  
N.T.S.



FUTURE JACKING SCHEME  
(N.T.S.)

JACKING DATA		
SUPPORT LOCATION	MAXIMUM JACK REACTION (SERVICE)	
	DL (KIPS)	LL+I (KIPS)
EAST JACK	1320	270
WEST JACK	1320	270



TERMINATION OF STIFFENER WELDS  
(BOTTOM FLANGE SHOWN - TOP FLANGE SIMILAR)  
SCALE 1"=1'-0"

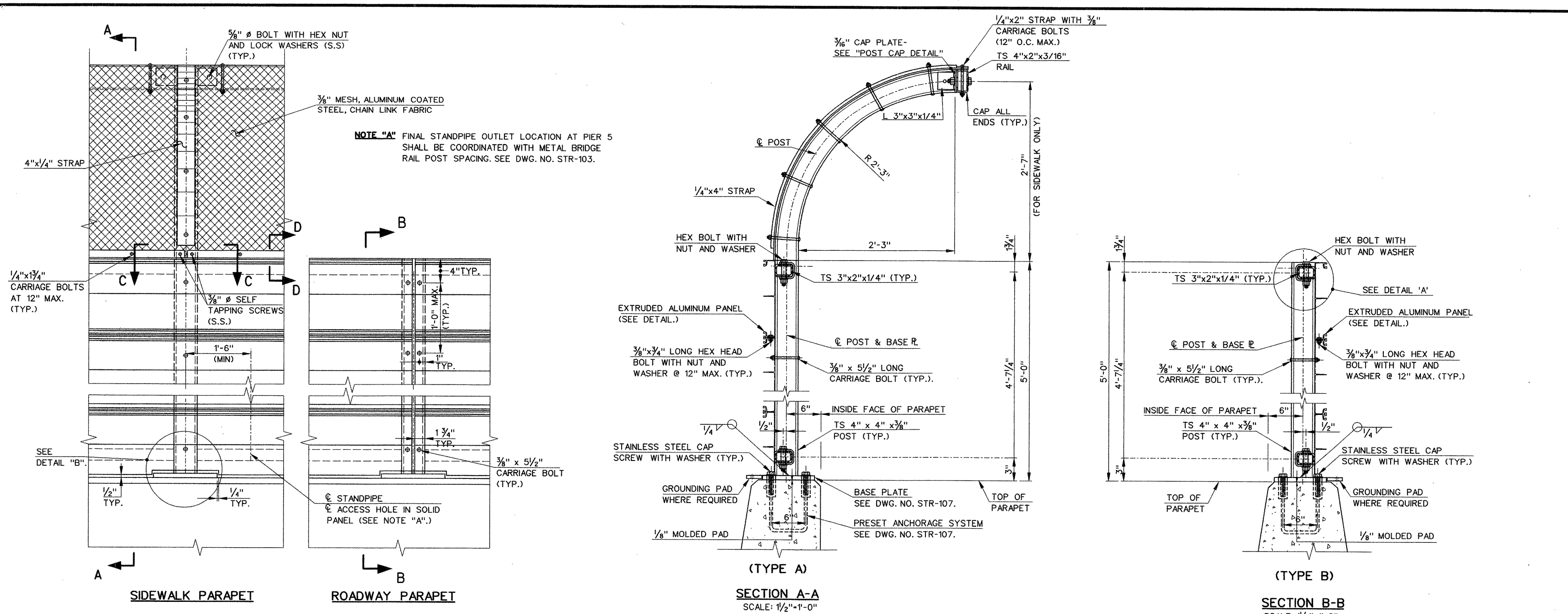
FLOOR BEAM NOTES:  
1. SEE DWG. NO. STR-76 FOR FLOOR BEAM NOTES.

FCM INDICATES FRACTURE CRITICAL MEMBER

ADDENDUM NO. 2

151306 08 1101 2000 2:uglyvz12703:curcharf0:adddendum no. 2:703s081.dgn

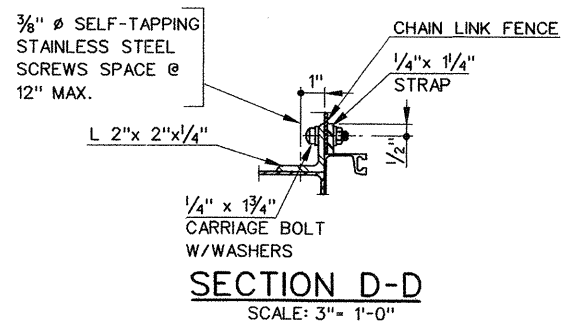
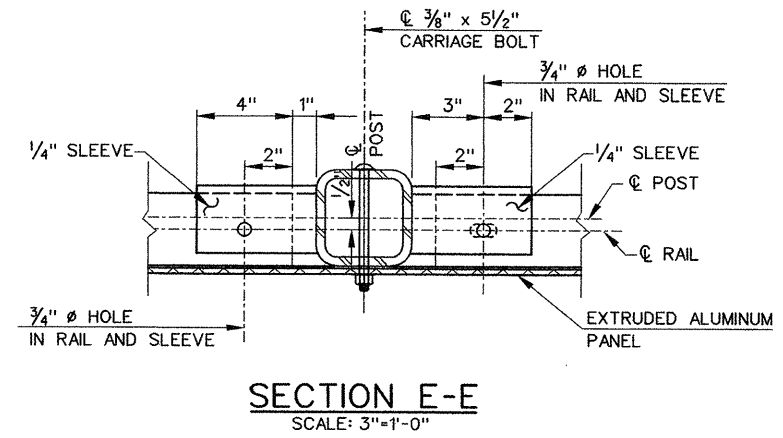
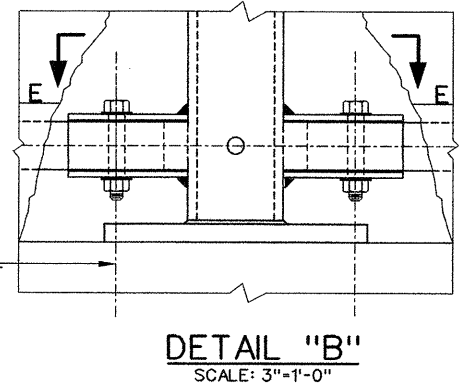
11-7-2000 ADDENDUM NO. 2 - REMOVE MILL TO BEAR 211 SHEET NO.	SCALE AS NOTED	DESIGNER: T. YOUNG DRAFTER: A. KILPATRICK CHECKED BY: M. VIOLANTI DATE CHECKED: 4-9-00	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: CHURCH STREET SOUTH EXTENSION OVER NEW HAVEN INTERLOCKING AND RAIL YARD	TOWN: NEW HAVEN	PROJECT NO.: 92-526 DRAWING NO.: STR-77 SHEET NO.: 211
REVISIONS		APPROVED BY:	ENGINEER: PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.	CADD FILE: R703S081.DGN PLOTTED DATE: 11-7-00	DRAWING TITLE: FLOOR BEAM SCHEDULE & DETAILS - SHEET 2 OF 2	



**NOTE "A"** FINAL STANDPIPE OUTLET LOCATION AT PIER 5 SHALL BE COORDINATED WITH METAL BRIDGE RAIL POST SPACING. SEE DWG. NO. STR-103.

**NOTES**

1. THE POSTS, RAILS, BASES, SLEEVES AND CONNECTION MATERIAL SHALL BE EXTRUDED ALUMINUM CONFORMING TO ASTM B221, ALUMINUM ALLOY 6061-T6 AND SHALL BE ANODIZED (CLEAR) SEE SPECIAL PROVISION.
2. ALL HARDWARE EXCEPT AS NOTED SHALL BE STAINLESS STEEL AND CONFORM TO THE REQUIREMENTS OF ASTM A193, CLASS 1 OR 2, GRADE B8 (AISITYPE 316). STAINLESS STEEL WASHERS SHALL CONFORM TO ASTM A167, TYPES 302-305.
3. FOR RAIL POST SPACING SEE SLAB PLANS.
4. THE RAILING SHALL BE FABRICATED AND ERECTED SO THAT THE EXTRUDED ALUMINUM PANELS ARE PARALLEL TO EACH OTHER AND TO THE PARAPET AND THE RAILING POSTS ARE VERTICAL.
5. EXPOSED SURFACES OF POSTS, RAILING, CONNECTION PLATES AND ANGLES AND RAILING PANELS SHALL BE FREE OF BURRS, IRREGULARITIES AND SHARP EDGES.
6. FOR CONNECTION TO THE GROUNDING AND BONDING SYSTEM, SEE DWG. NO. STR-118. GROUNDING PADS ARE TO BE PAID FOR UNDER THE APPLICABLE METAL BRIDGE RAIL (SOLID PANEL) ITEM.
7. FOR SECTIONS C-C AND DETAIL "A". SEE DWG. NO. STR-106.
8. METAL BRIDGE RAIL MOUNTED ON THE SIDEWALK PARAPET SHALL BE PAID FOR UNDER THE "METAL BRIDGE RAIL (SOLID PANEL) (TYPE A)".
9. METAL BRIDGE RAIL MOUNTED ON THE ROADWAY PARAPET SHALL BE PAID FOR UNDER THE ITEM "METAL BRIDGE RAIL (SOLID PANEL) (TYPE B)".



**ADDENDUM NO. 2**

06.29.22 09 NOV 2000 7:49pm 08703.ctb chrcrs\F0addendum no.2.dwg 2703a35.dgn

SCALE AS NOTED		DESIGNER: D. CICHOWSKI	<p><b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION</p>	PROJECT TITLE: CHURCH STREET SOUTH EXTENSION OVER NEW HAVEN INTERLOCKING AND RAIL YARD	TOWN: NEW HAVEN	PROJECT NO.: 92-526
REV.	DATE	DESCRIPTION		REVISIONS	DRAWING TITLE: METAL BRIDGE RAIL (SOLID PANEL) - SHEET 1 OF 3	SHEET NO.: 239
		DRAFTER: A. KILPATRICK	ENGINEER: PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.	CADD FILE: R703S135.DGN	PLOTTED DATE: 11-7-00	
		CHECKED BY: A. MORETTI	APPROVED BY:			
		DATE CHECKED: 4-9-00	DATE:			





